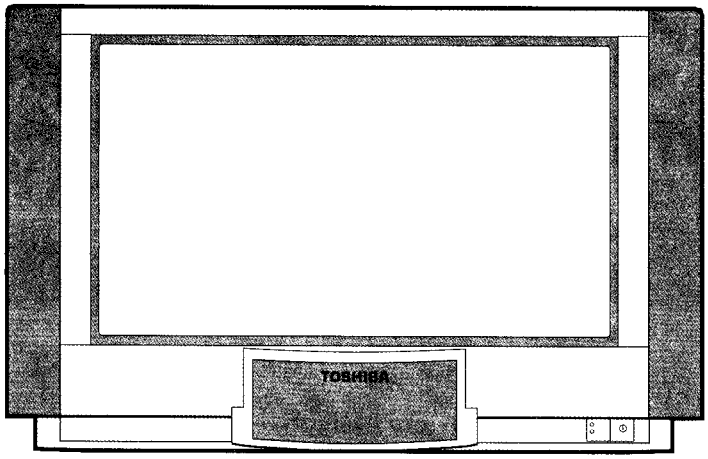
TOSHIBA



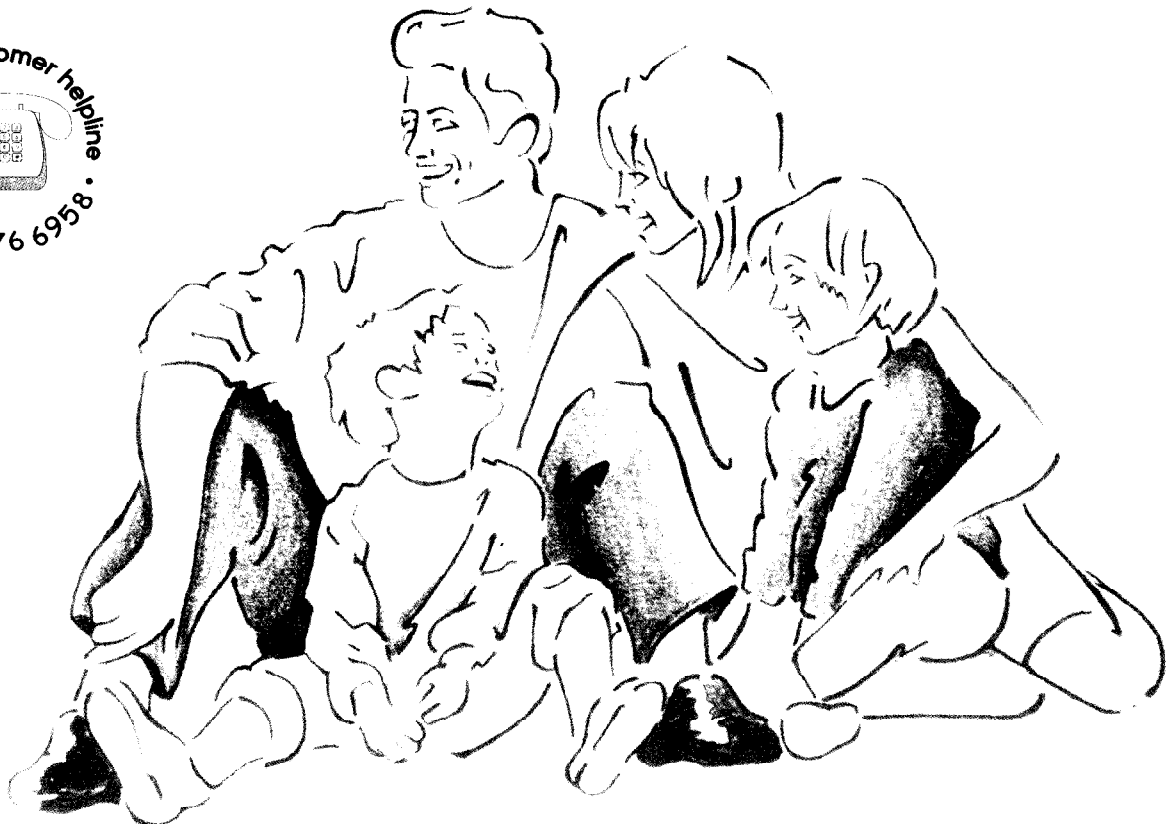
28W8DB
32W8DB

Widescreen Nicam Stereo Colour Television
with Fastext

* DOLBY SURROUND PRO • LOGIC

OWNER'S MANUAL

Toshiba customer helpline • 0115 976 6958 •



Contents

This manual has been designed to be easy to use, but if you need advice in using your Toshiba Television, we have provided a Customer Helpline for you.

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Introduction

Your new Toshiba television is designed to automatically tune in and store all available terrestrial transmissions and to allocate a satellite position.
The following describes the initial set-up procedure in order to operate the features of your TV.

Electrical installation:

The mains supply required for this equipment is 220v to 240v AC 50Hz. Never connect to a DC supply or any other power source.

Mains Plug

DO NOT cut off the fused mains plug from this equipment, this incorporates a special Radio Interference Filter, the removal of which will impair its performance.

The fuse fitted in this plug is 5A. and is approved by ASTA or BSI to BS1362. It should only be replaced by a correctly rated and approved type and the fuse cover must be re-fitted.

IF IN DOUBT CONSULT A COMPETENT ELECTRICIAN

Air Circulation

Leave at least 10 cm clearance around the television to allow adequate ventilation. This will prevent the TV from overheating and consequential possible damage to the TV. Dusty places should also be avoided.

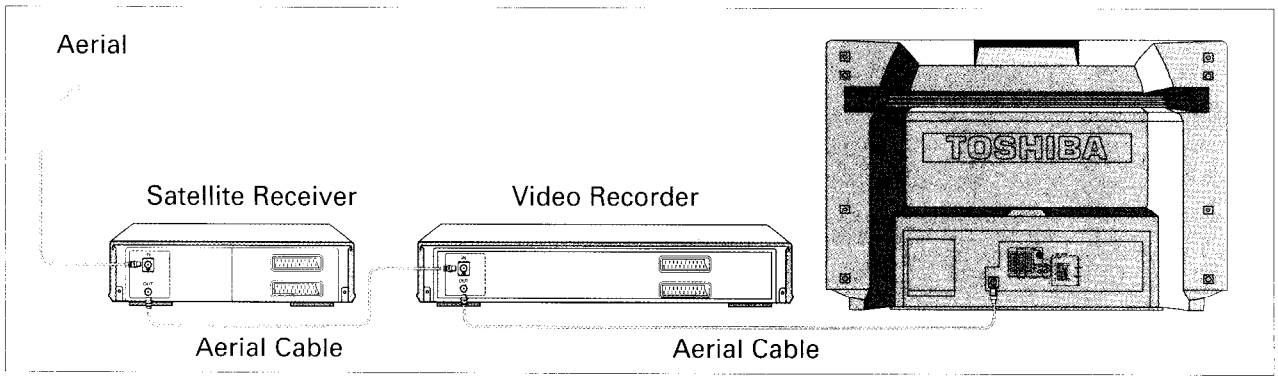
If using a video recorder mounted in a cabinet below your TV, it is recommended that it is placed on the lowest shelf of the cabinet for optimum performance.

Connecting your TV:

Connecting up

Connect the aerial plug to the socket on the rear of the television. If you use a satellite receiver and/or a video recorder it is essential that the aerial cable is connected through the satellite receiver and/or through the video recorder to the television.

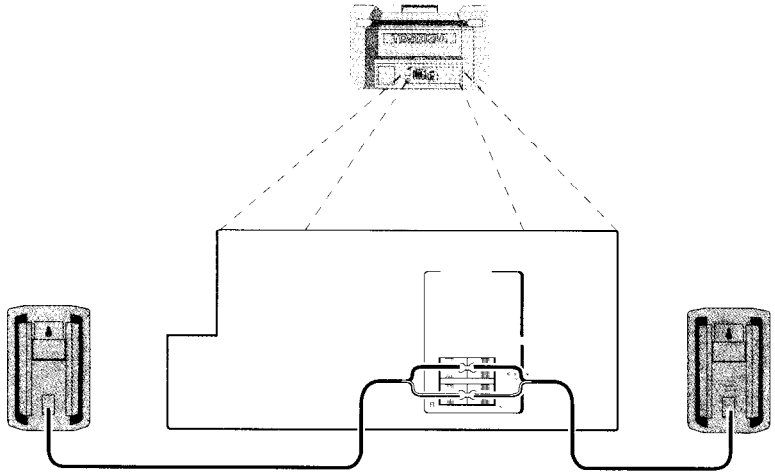
DO NOT CONNECT SCART LEADS UNTIL THE TELEVISION IS FULLY TUNED.



Installation

When connecting external speakers always make sure that the power switch is turned off.

Connecting the Surround Speakers:

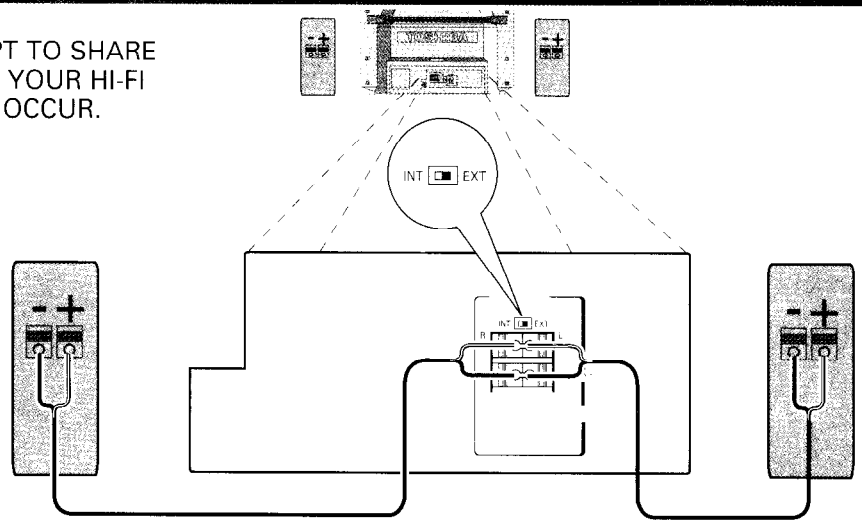


In order to enjoy the sensations of Surround Sound TV it is necessary to connect the 2 surround speakers. These speakers and cables are included with the TV and should be sited in line with the normal viewing position.

To connect the Surround Speakers simply press the connector and insert the cable. Always make sure that the lead with the stripe (or raised edge) is connected to the RED terminal and the other (smooth) lead is connected to the BLACK terminal.

Connecting the External Left and Right Speakers:

WARNING: DO NOT ATTEMPT TO SHARE EXTERNAL SPEAKERS WITH YOUR HI-FI AS SERIOUS DAMAGE MAY occur.



To improve the positioning of the centre channel i.e. dialogue, we recommend that external speakers are used. When connecting external Hi-Fi speakers of your choice, they must be 8 ohm, 10W minimum. These speakers should be positioned beside the TV and will deliver the left and right sound channels. Simply press the connector as shown and insert the cable. Always make sure that the lead with the stripe (or raised edge) is connected to the RED terminal and the other (smooth) lead is connected to the BLACK terminal.

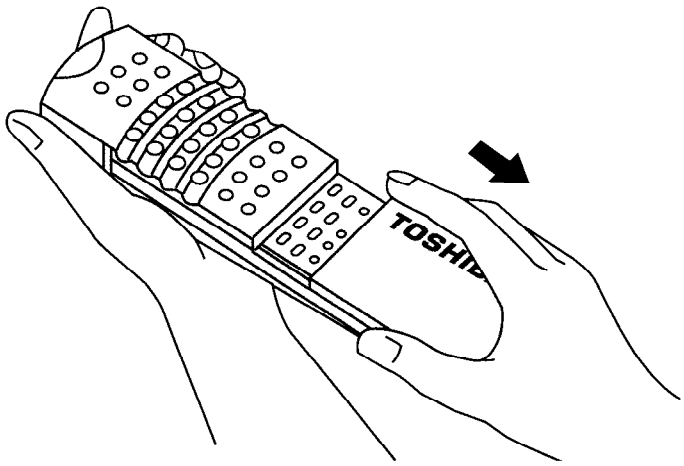
You must now set the switch to EXT as shown.

Preparing the remote control

The remote control:

In addition to the standard set of function buttons, your remote control has a concealed portion in which the tuning and additional feature buttons are located.

Carefully slide back the lower portion of the remote control to reveal the concealed buttons.

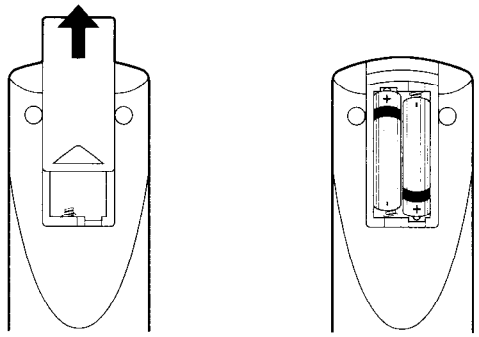


Batteries for the remote control:

Carefully slide the cover upwards to reveal the battery compartment of the remote control (located on the rear). When fitting new batteries take care to observe the correct polarities.

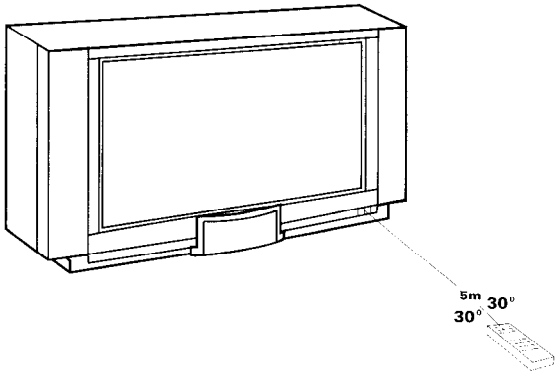
All Toshiba batteries are Cadmium and Mercury free.
Suitable battery types are: R6 or AA.

Caution: **Do not** throw your batteries into a fire. Dispose of your batteries in a designated disposal area. **Do not** combine a used old battery with a new one.
Do not mix battery types.



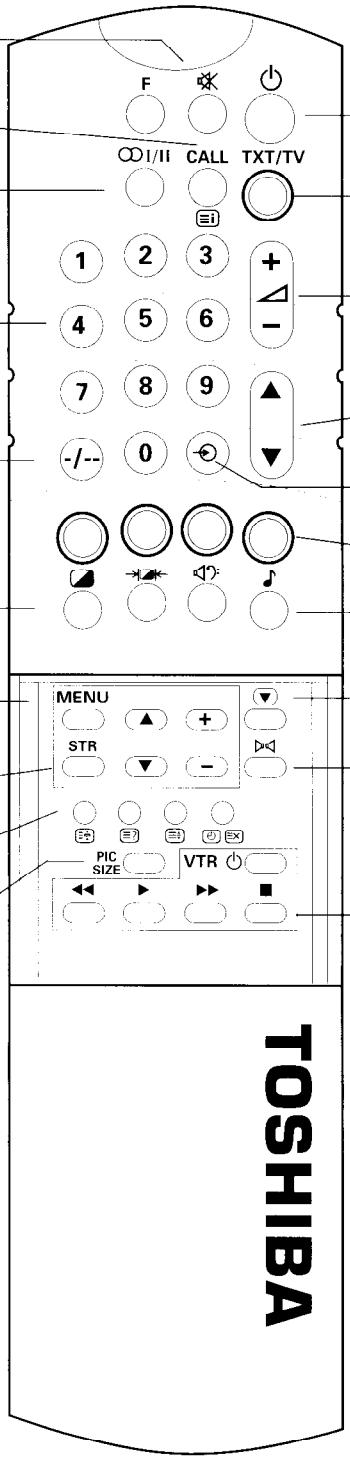
Effective range for the remote control:

For optimum performance operate the remote control within a distance of 5 metres and up to 30° from the central position.



Your remote control

The illustration below is designed to show the areas of the remote control. Individual buttons are described in the text.



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Page 17

CALL
Page 8

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1 or 2 Digit Channel Selection
Page 16

Picture Controls
Page 20

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Slide

Standby Page 7

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Programme Position up/down Page 16
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Input Selection Page 32
(VTR, Satellite, DVD etc)

Teletext Coloured Prompt Buttons
Page 33

Sound Controls Page 21

This button has no function on this model

Surround Sound Pages 23-29

Video Recorder Buttons
to operate your Toshiba
Video Recorder

Press the VTR button and
one of the following
buttons

◀◀ for REWIND
▶▶ for FAST FORWARD
▶ for PLAY
■ for STOP
⏻ for STANDBY

Turning the TV on

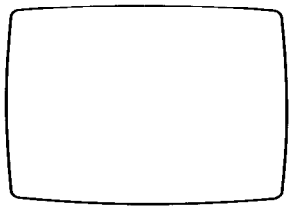
To conserve energy it is best to turn your TV off and not to leave it in standby.

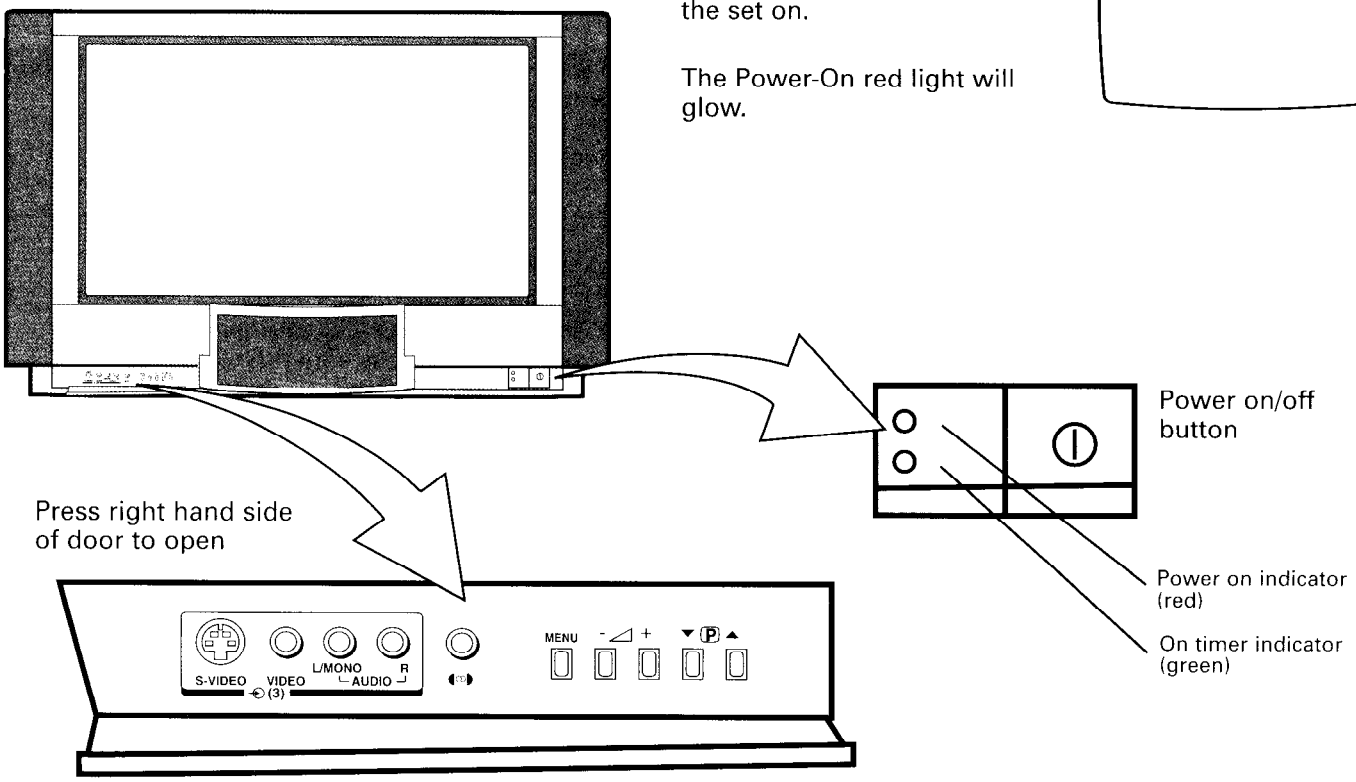
Switching the power on:

Switching on the TV

1 If the Power-On light is unlit, press the on/off button on the front of the TV to switch the set on.

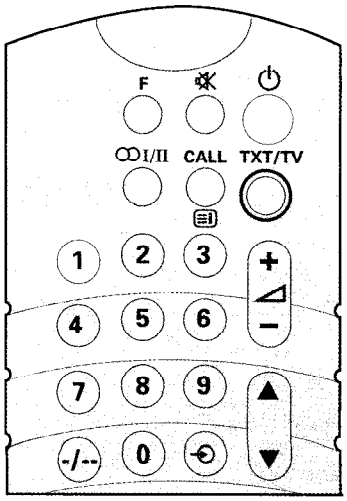
The Power-On red light will glow.





Front Control Panel

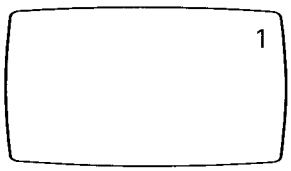
Switching on from standby:



Switching on from standby

Standby Button ⏻:
This allows you to put the set into standby mode when leaving the TV unattended for short periods of time.

To return to TV mode press the ⏻ button, or any of the numbered buttons on the remote control. The picture may take up to 6 seconds to appear.

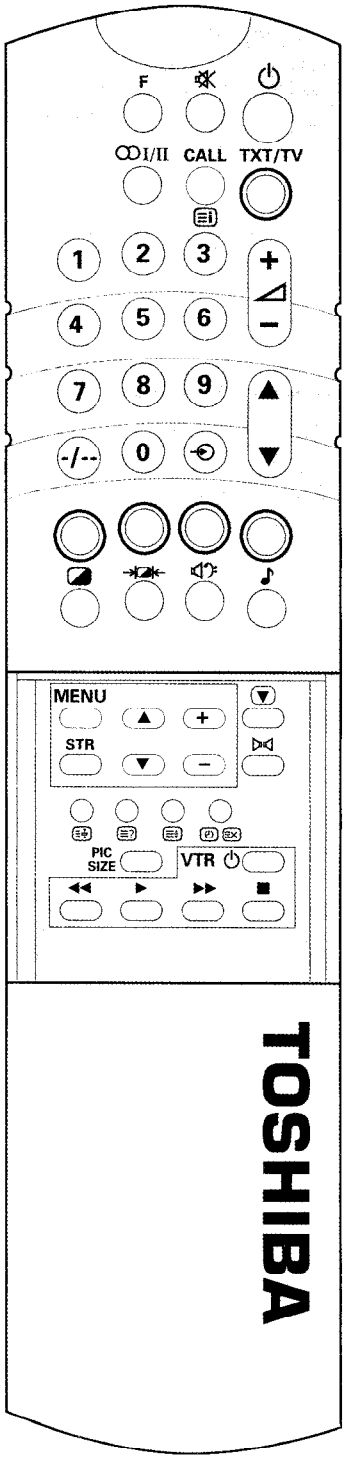


How it works

This Owner's Manual is divided into:
INFORMATION AND GUIDANCE ON THE LEFT | INSTRUCTIONS ON THE RIGHT

Selecting and adjusting Menu functions using the remote control:

The buttons you will need for each section are highlighted in white (see below).



Slide

Your new Toshiba TV has a menu system to help you select the various functions. Press the **MENU** button on the remote control unit to access the **Main menu**.

Menu displays will remain on screen for approximately 15 seconds.

If a display disappears, simply press the **MENU** button to bring back the **Main menu**.

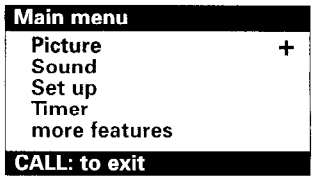
To cancel any display press the **CALL** button.

Highlighting a feature, enables you to ***adjust/alter*** it.
To ***highlight*** a feature press the ▲ button to ***move*** the bar up, or the ▼ button to ***move*** the bar down.
To ***select/adjust*** a feature press either the + (or −) button.

Selecting and adjusting Menu functions

1 Press the **MENU** button to access the **Main menu**.

2 Use the ▲ (or ▼) button to ***move*** the highlight bar up (or down) the menu.

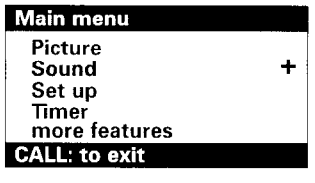


3 Use the + button to ***select*** or ***adjust*** the settings.

For example: To ***select*** **Balance** in the Sound menu:

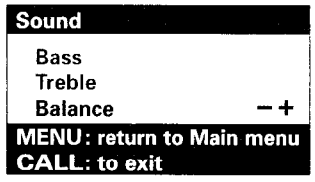
1 Press the **MENU** button to access the **Main menu**.

2 Use the ▲ (or ▼) button to ***highlight*** Sound.



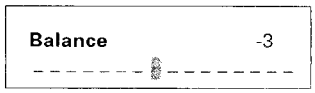
3 Press the + button to ***select*** the **Sound** menu.

Press the ▲ (or ▼) button to ***highlight*** Balance.



4 Press the + button to ***select*** the **Balance** display.

Press the + (or −) button to ***adjust*** the setting.

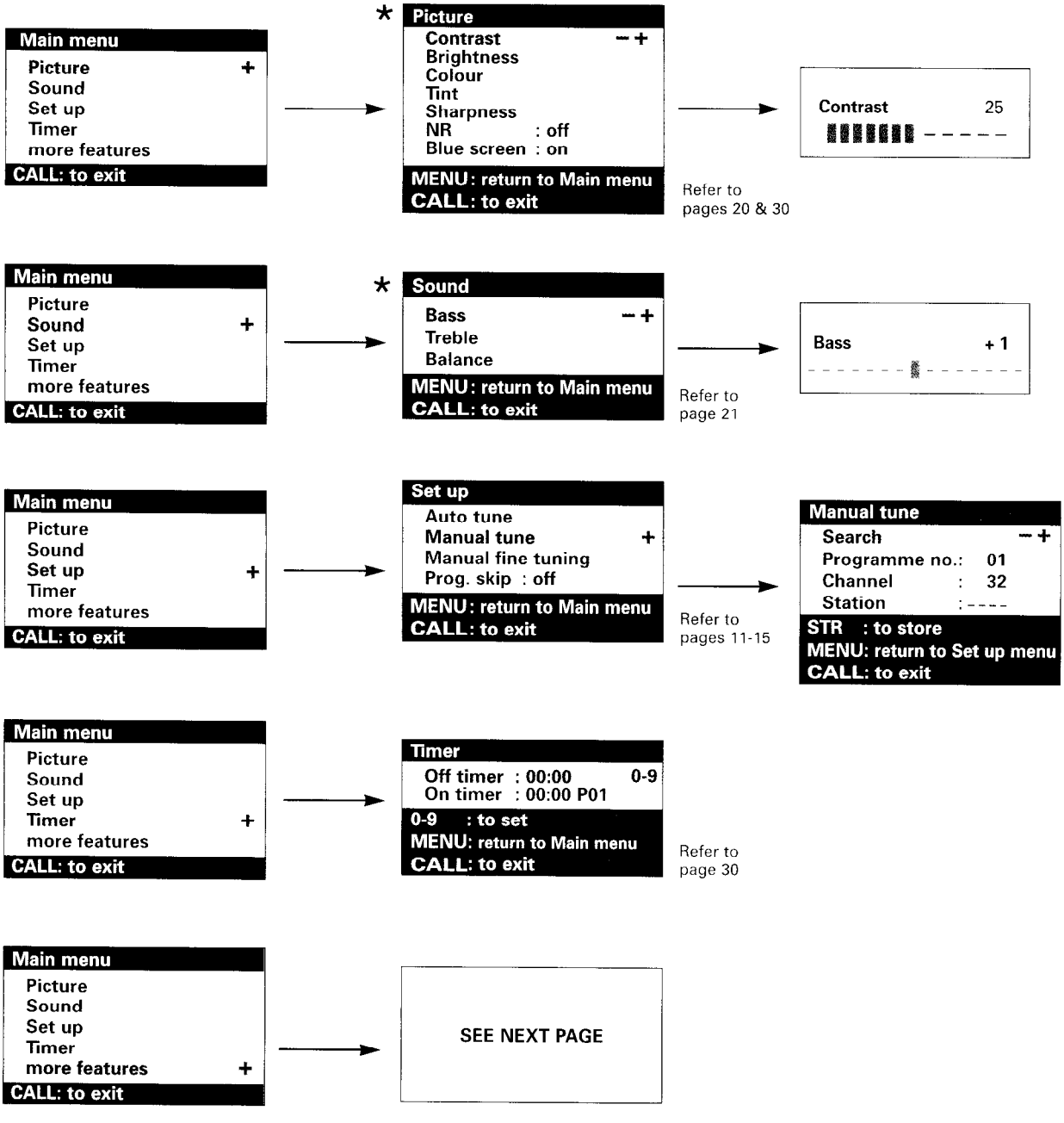


Menu displays

List of Main menu displays:

Menu displays will remain on screen for approximately 15 seconds. If a display disappears, simply press the **MENU** button to bring back the **Main menu**.

To cancel any display press the **CALL** button.

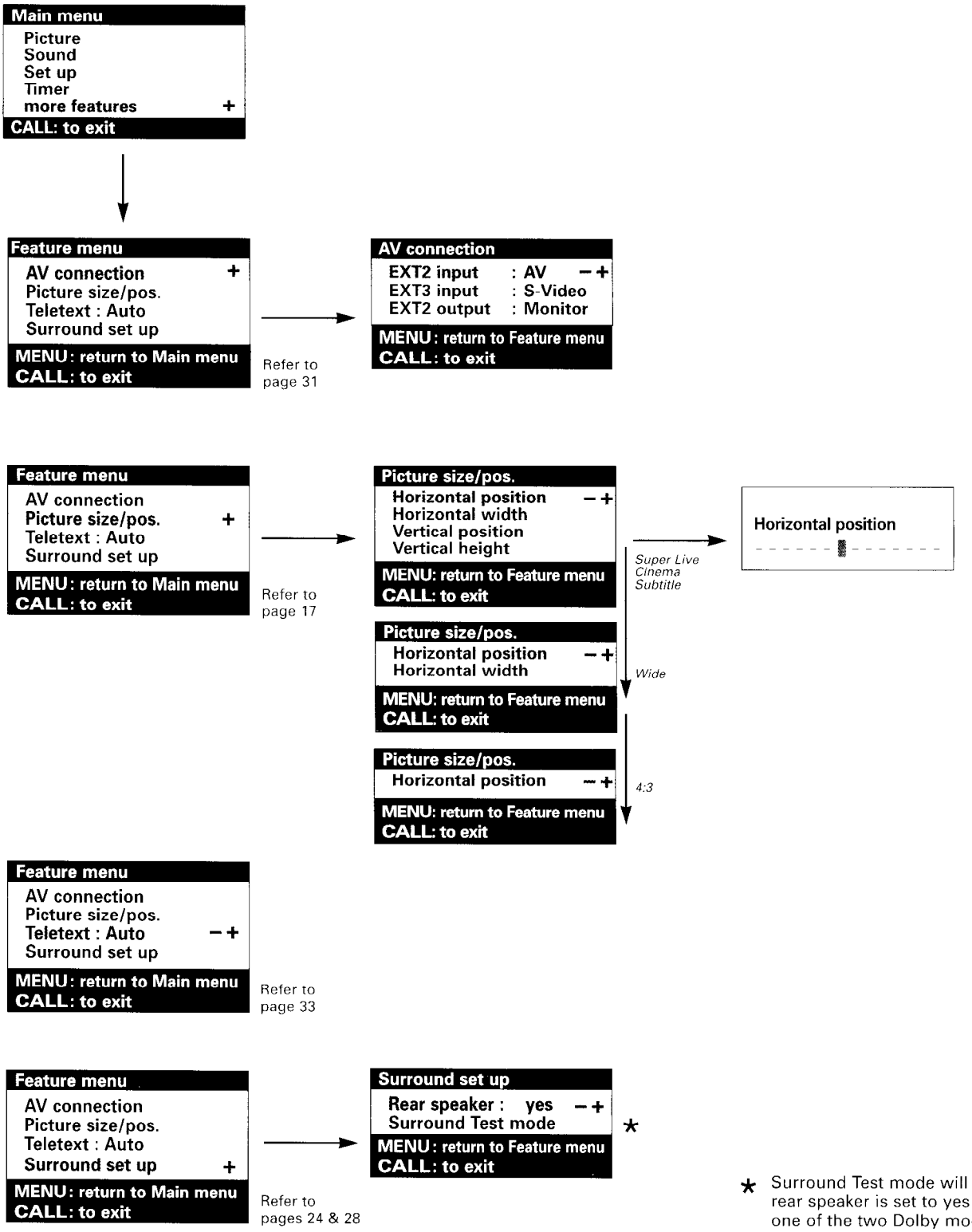


* This menu can be accessed by using the buttons on the front of the TV. Refer to page 35.

Menu displays

Press the **MENU** button to access the **Main menu**.
Press the ▲ (or ▼) button to ***move*** the highlight bar up (or down) the menu.
Press the + (or −) button to ***select*** or ***adjust*** the settings.

List of Feature menu displays:



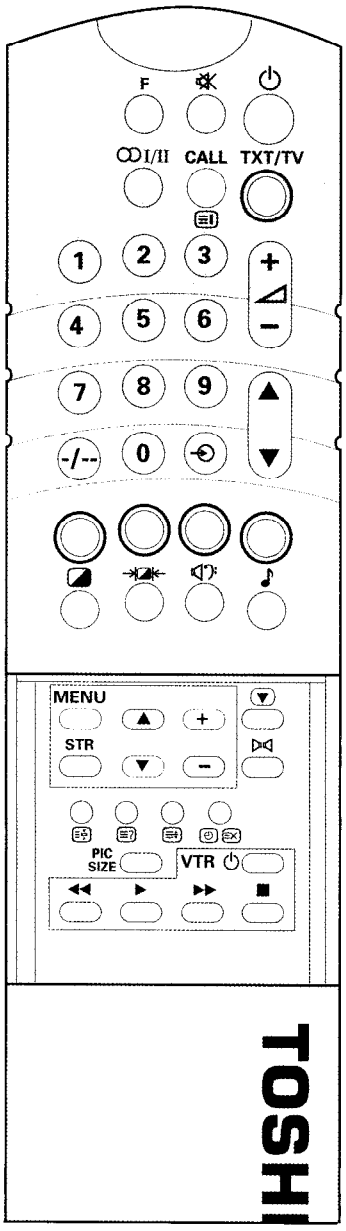
* Surround Test mode will only appear if the rear speaker is set to yes and the TV is in one of the two Dolby modes.

Auto tune

As programmes are transmitted on different frequencies in different parts of the country we are unable to pre-tune all programme positions. The following simple steps will take you through the process, enabling you to allocate any TV station to any programme position.

Preparing to Auto tune:

The buttons you will need for each section are highlighted in white (see below).



Note: This TV has direct channel entry if the channel numbers are known.

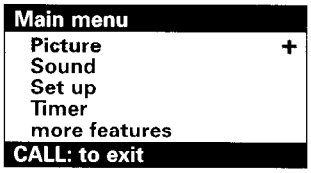
Select the screen in step 4 on page 14, enter the required programme position, then enter the appropriate channel number and press the **STR** button to memorise.

Menu displays will remain on screen for approximately 15 seconds. If a display disappears simply press the **MENU** button to bring back the **Main menu**.

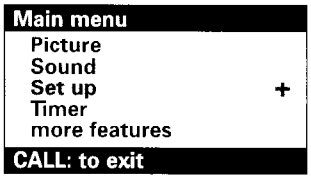
To cancel any display press the **CALL** button.

Note: The satellite receiver must be switched on and tuned to Sky News and the video recorder plugged in and set to standby. This will enable your television to identify and allocate the necessary programme positions.

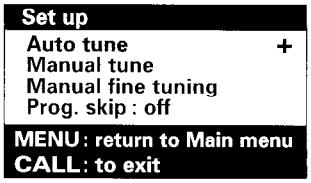
1 Press the **MENU** button to ***select*** the **Main menu**.



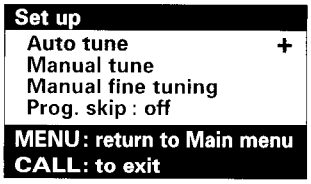
2 Press the ▼ button repeatedly to ***highlight*** Set up.



3 Press the + button to ***select*** the **Set up** menu.



4 Press the ▼ button repeatedly to ***highlight*** Auto tune.



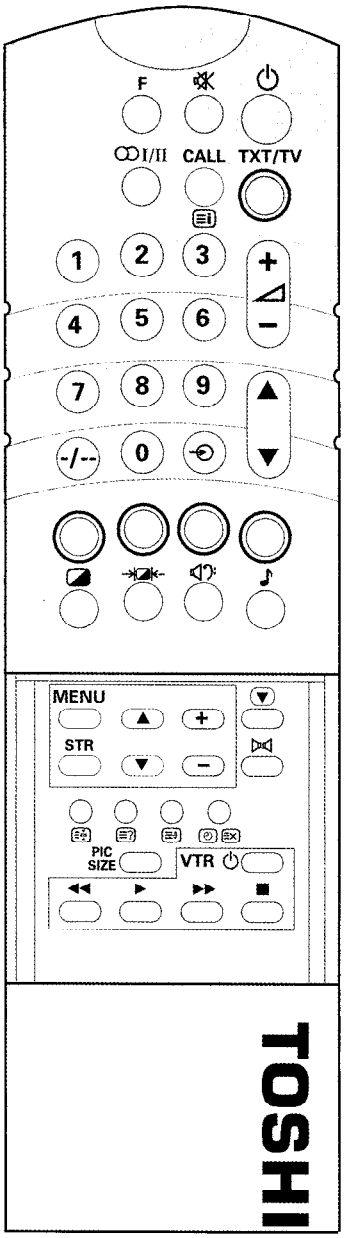
5 Press the + button to ***select*** the **Auto tune** display.

Continued on page 12.

Auto tune (continued)

To allocate a position for your video recorder use the Manual tune method as described on pages 14/15.

Auto tune:



DO NOT PRESS 🔇 OR ANY OTHER BUTTONS WHILST YOU ARE TUNING

6 Press the **STR** button to start the automatic search.

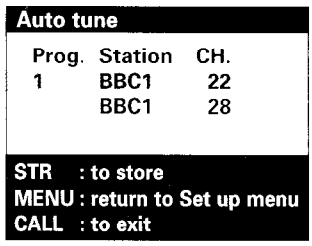
Allow the television to complete the search.

DO NOT PRESS ANY BUTTONS WHILST THE AUTOMATIC SEARCH IS IN PROGRESS.

If you make a mistake simply start again from the beginning. The channel number will change as the TV searches through the band (21-69). Each station will be displayed along with the station identifier.

(This takes approximately 3 minutes.)

7 When the search is complete the television will display a list of all the BBC1 signals available. If there is a choice, press the ▲ (or ▼) buttons to scroll through and view the channels.



8 Select the channel you like best and press the **STR** button to STORE BBC1 to programme position 1. (**STR: to store** will highlight momentarily.) Any unstored BBC1 choices will be displayed later should you wish to store them.

Note: You may only have one selection, but up to four selections could be displayed at any time.

Continued on page 13.

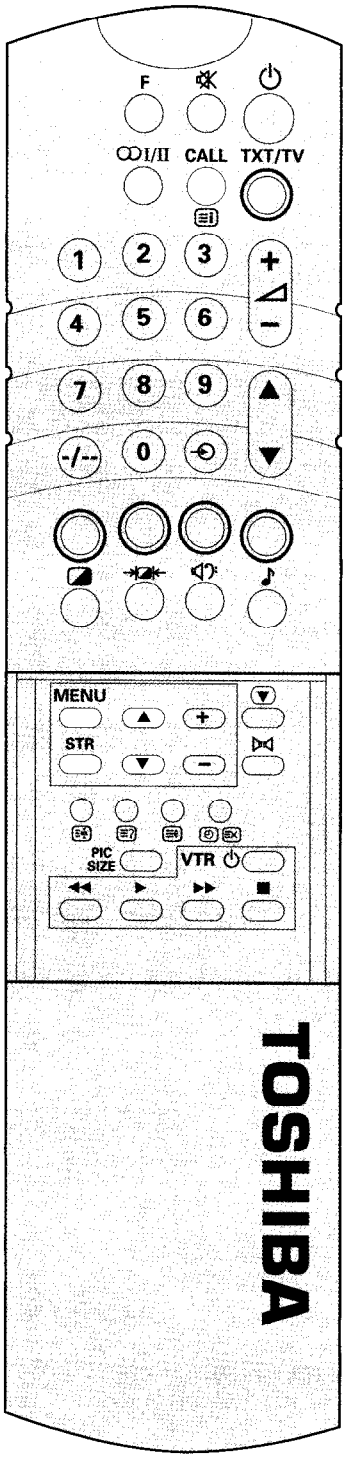
PROGRAMME POSITIONS FOR AUTO TUNE

PROGRAMME	STATION	DESCRIPTION
1	BBC1	BBC1
2	BBC2	BBC2
3	ITV	ITV
4	CH4	CHANNEL 4
5	CH5	CHANNEL 5
6	SAT	SATELLITE

Auto tune (continued)

To allocate a position for your video recorder use the Manual tune method as described on pages 14/15.

Auto tune:



9 Programme 2 will appear showing the BBC2 choices. Repeat steps 7 and 8 to allocate the required signal for BBC2, ITV and Channel 4.

10 Programme 5 is allocated to Channel 5 although this may not be available in all areas. Press **STR** to continue this procedure.

Programme 6 is allocated to the satellite channel.

Auto tune		
Prog.	Station	CH.
2	BBC2	38
	BBC2	56
STR : to store		
MENU : return to Set up menu		
CALL : to exit		

11 Programme 7 will display the remaining channels which have not yet been allocated.

Use the ▲ (or ▼) button to scroll through the list of available channels as each is highlighted the channel will be displayed.

Auto tune		
Prog.	Station	CH.
7	BBC1	28
	BBC2	66
STR : to store		
MENU : return to Set up menu		
CALL : to exit		

12 Press **STR** to store the channel you require on programme position 7. When you have stored a channel it will no longer appear in the list for further selection. Repeat as required, or press **CALL** to exit.

YOU MAY NOW CONNECT SCART LEADS

It is not necessary to tune your television to your video. Simply connect the scart leads, insert a tape and press play.

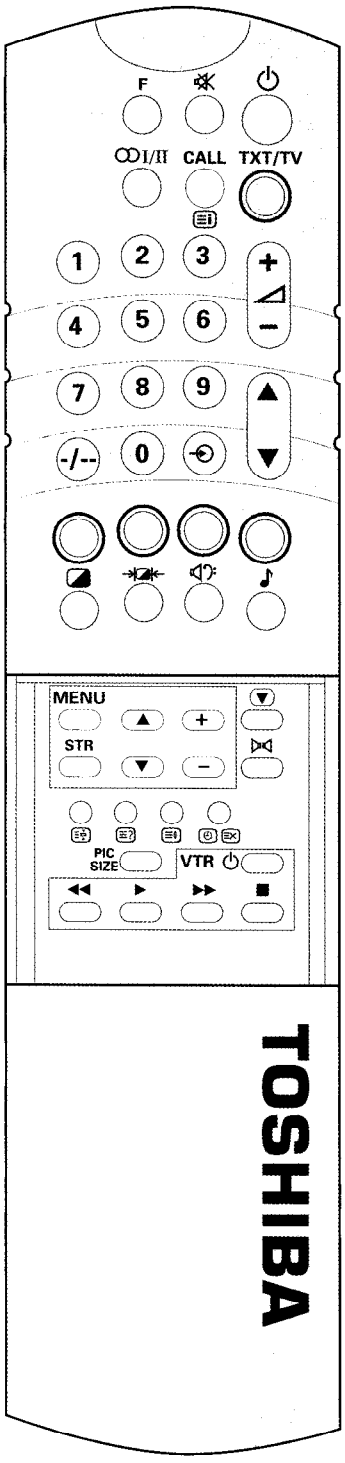
If you are unable to use scart leads, or wish to allocate a programme position to the video refer to page 15 "Tuning to your video" using aerial cables.

Tuning-in

Your Toshiba television may be tuned manually as an alternative to AUTO TUNE.

Manual tune:

Menu displays will remain on screen for approximately 15 seconds.



DO NOT PRESS ANY OTHER BUTTONS WHILST THE SET IS TUNING

1 With the **Main menu** showing, press the ▲ (or ▼) button repeatedly to ***highlight*** Set up.

Press the + button to ***select*** the **Set up** menu.

Main menu
Picture
Sound
Set up +
Timer
more features
CALL: to exit

2 Press the ▲ (or ▼) button to ***highlight*** Manual tune.

Press the + button to ***select*** the **Manual tune** menu.

Set up
Auto tune
Manual tune +
Manual fine tuning
Prog. skip : off
MENU: return to Main menu
CALL: to exit

3 Press the ▲ (or ▼) button to ***highlight*** Search.

Press the + button to search up the band (>>>) or the − button to search down the band (<<<).

The >>> will flash and the TV will show the channel numbers whilst the TV is searching.

When a station/satellite is found it will be displayed.

Manual tune	
Search	− +
Programme no.:	01
Channel :	32
Station :	- - - -
STR : to store	
MENU: return to Set up menu	
CALL: to exit	

Manual tune		
Search	>>>	− +
Programme no.:	01	
Channel :	38	
Station :	- - - -	
STR : to store		
MENU: return to Set up menu		
CALL: to exit		

4 Press the ▲ (or ▼) button to ***highlight*** the Programme no.

Press + (or −) button to ***select*** the programme position number you want to store the station on.

Manual tune		
Search		
Programme no.:	07	− +
Channel :	42	
Station :	- - - -	
STR : to store		
MENU: return to Set up menu		
CALL: to exit		

Press the **STR** button if you wish to store the broadcast displayed (**STR: to store** will highlight momentarily) or repeat from step 3 if you wish to continue searching.

The display will stay on screen for approx. 15 seconds. If you do not STORE the programme position it will not be held in memory.

Repeat the procedure for all the remaining programme positions you wish to tune, including the satellite.

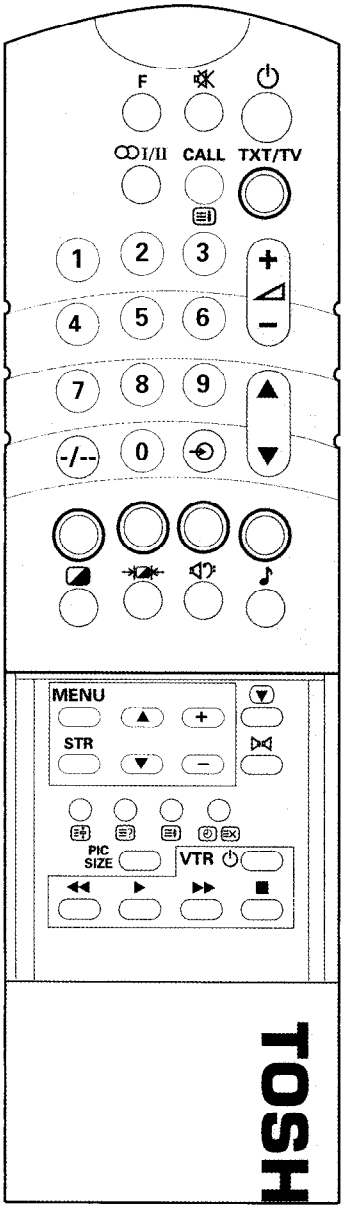
Press the **CALL** button to exit when you have finished.

YOU MAY NOW CONNECT YOUR SCART LEADS

Tuning-in (continued)

If you cannot connect your TV to the video recorder using scart leads you will need to allocate a programme position on the TV for the video recorder.

Tuning to your video recorder, Manual fine tuning, Programme Skip:



The Programme skip feature enables you to prevent certain programme positions from being viewed.
For example, if you are going out for the evening and you do not wish your children to watch a certain film etc., you can skip the programme position and take the remote control with you. The TV will function normally, using the controls on the front of the TV but the set will not show the skipped programme position.

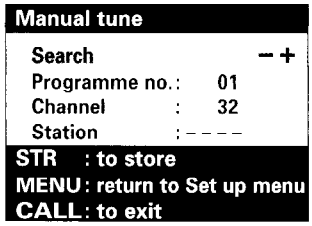
Tuning to your video recorder (connected via an aerial cable)
To tune your television to your video recorder play a pre-recorded tape.

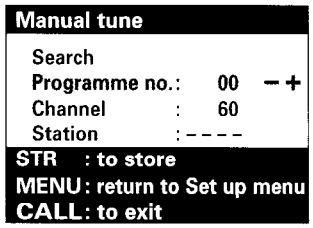
1 Follow steps 1 to 4 (Manual tune) as detailed on page 14.

When the video recorder is found, your pre-recorded tape will be displayed.

It is suggested that programme 00 is used.

Don't forget to press **STR**.





Manual Fine Tuning (Not normally required)
This will enable you to adjust the tuning manually to optimise the picture.

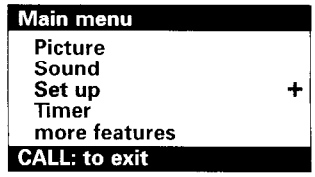
1 Press the **MENU** button to display the **Main menu**. Press the ▲ (or ▼) button to ***highlight*** Set up.

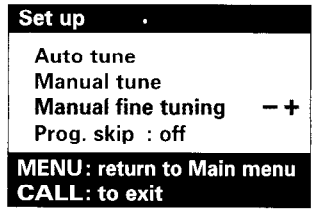
Press the + button to ***select*** the **Set up** menu.

2 Press the ▲ (or ▼) button to ***select*** **Manual fine tuning**.

Hold down the + button to fine tune up, or the − button to fine tune down.

This setting will be stored automatically.

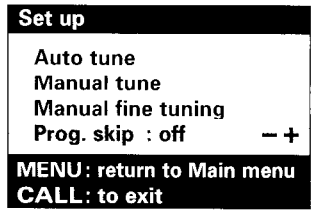




To select Programme skip

1 Press a numbered button to select the programme position to be skipped. With the adjacent display showing, press the ▲ (or ▼) button to ***select*** **Prog. skip**.

2 To turn the Programme skip option on or off use the + (or −) button.

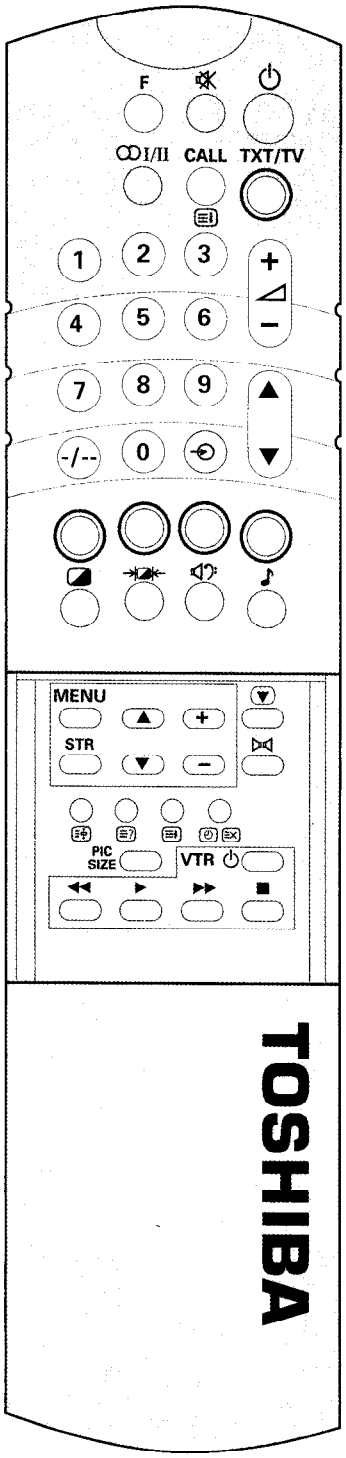


NOTE: A * will appear beside a skipped programme position when using the numbered buttons on the remote control.

Watching TV programmes

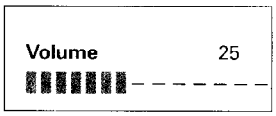
NOTE: To identify the current programme position press the **CALL** button. Press again to cancel the display.

Volume, Changing programme positions using the remote control:



To alter the volume

1 To raise or lower the volume press the ◿ + or − button. The display will show the changes. Holding down the **F** button whilst altering the volume will increase the speed of adjustment.



To change programme position

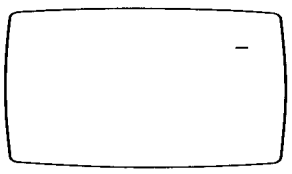
1 To ***select*** a programme position press one of the numbered buttons.

The programme position will be displayed in the top right corner of the screen together with the stereo/mono indicator. See page 22.

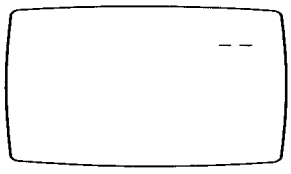
2 Alternatively you can change the programme position by using the adjacent button.

▲
▼

1 For programme positions below 9, press the **-/--** button to select –. Enter the desired programme position number using the numbered buttons on the remote control.

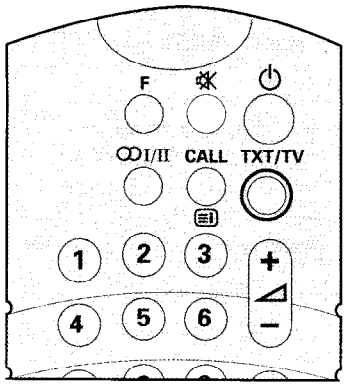


2 For programme positions above 9, press the **-/--** button to select – –. Enter the desired 2 digit programme position number (10-99).



Sound and picture controls

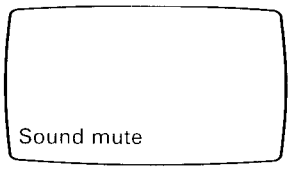
Sound mute:



To mute the sound

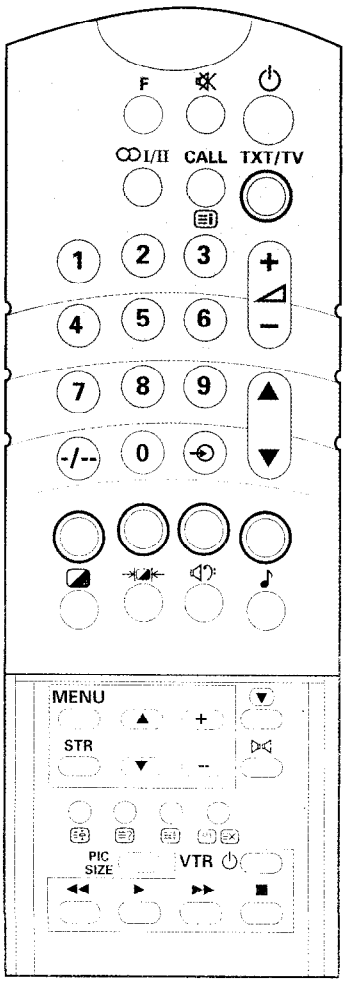
1 Press the 🔇 button. The words **Sound mute** appear on the screen.

2 Press the 🔇 button again to restore the sound.



Picture size/pos.:

To re-set the picture size and position back to the factory defaults, press the **F** and the **0** buttons simultaneously.

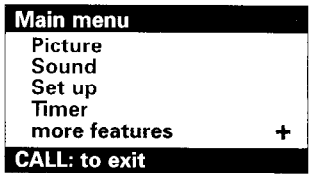


Adjustment to the horizontal and vertical position and height of the picture may be made to suit your viewing preferences. The **Picture size/pos.** options available differ according to the widescreen mode chosen, see page 18.

eg: after pressing the **PIC SIZE** button and ***selecting*** **Cinema**:

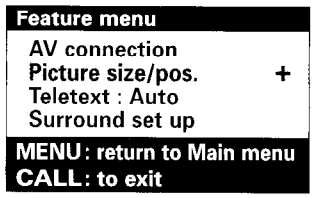
1 Press the **MENU** button to display the **Main menu**.

Press the ▲ (or ▼) button repeatedly to ***highlight*** more features.



Press the + button to ***select*** the **Feature menu**.

2 Press the ▲ (or ▼) button repeatedly to ***highlight*** Picture size/pos.

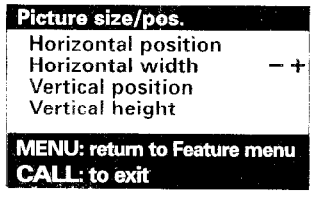


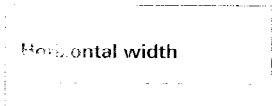
3 Press the + button to ***select*** the **Picture size/pos.** menu.

For example:

Press the ▲ (or ▼) button repeatedly to ***highlight*** Horizontal width.

Use the + (or –) button to ***adjust*** the setting.

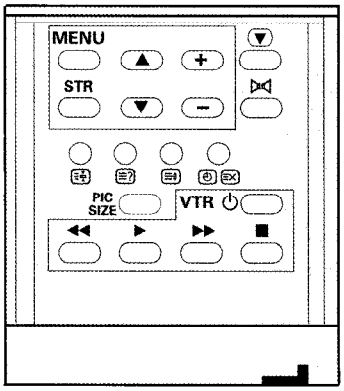




Widescreen modes

Your new widescreen Toshiba TV incorporates the latest, state-of-the-art widescreen modes. This model has been designed to display Widescreen (16:9) material correctly in Wide mode. In addition, a number of different options are provided to give the best presentation for existing TV broadcasts (4:3) programme material.

PIC SIZE:



More and more films are being broadcast in widescreen format with black bands top and bottom.

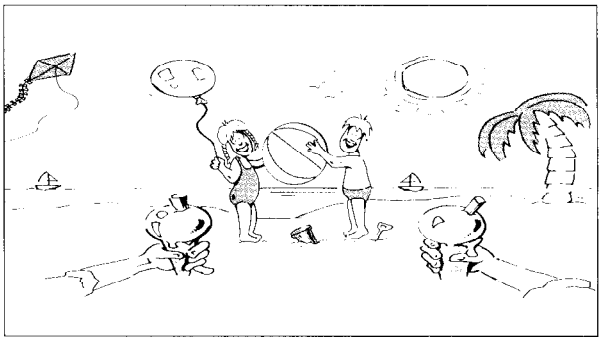
By pressing the **PIC SIZE** button the TV will toggle between **Super Live**, **Cinema**, **Subtitle**, **Wide** and normal **4:3** so that you can choose the screen mode best suited to the picture being transmitted, see below.

PIC SIZE: Super Live

This television is factory set to Super live which dramatically enhances most conventional 4:3 broadcasts by changing the proportions. You can manually ***select*** **Super Live** by repeatedly pressing the **PIC SIZE** button.

If you view a conventional 4:3 broadcast in Super Live mode the TV will dynamically stretch the broadcast image to fill the screen.

The central images will be closer to their normal proportions, whilst the extreme left and right edges will be progressively stretched.



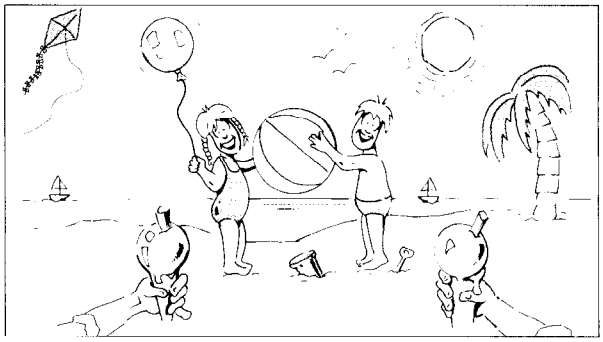
Viewing a 4:3 broadcast in Super live mode

PIC SIZE: Cinema

Select Cinema when any broadcast has black bars both above and below the picture area. These black bars will be reduced or eliminated.

Select **Cinema** by repeatedly pressing the **PIC SIZE** button.

If you view a conventional 4:3 broadcast in Cinema mode the TV will zoom in on the central image to fill the screen. The central image will retain its true aspect but some of the image on the top and bottom will be lost.



Viewing a 4:3 broadcast (with black bars top and bottom) in Cinema mode.

Widescreen modes (continued)

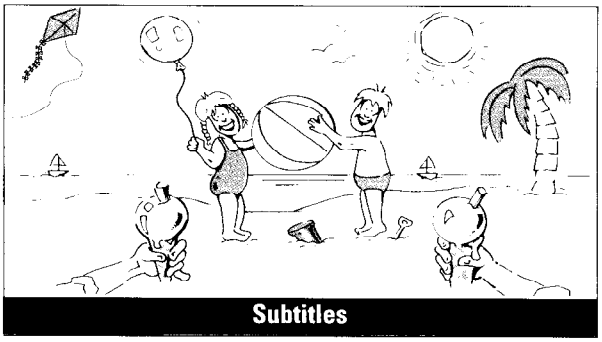
Alterations may be made to the picture position by ***selecting*** the **Picture size/pos.** from the Feature menu (see page 17).
To reset the picture position back to the factory defaults, press the **F** and the **0** buttons simultaneously.

PIC SIZE: Subtitle

Select Subtitle when any broadcast programme has subtitles* in the black bar at the bottom. This will display the image in its true proportions with the subtitles below. Some of the top of the image will be lost.

***Select* Subtitle** by repeatedly pressing the **PIC SIZE** button.

If you view a conventional 4:3 broadcast in Subtitle mode the TV will revert to Cinema mode with the image scrolled upwards.



Viewing a 4:3 broadcast with subtitles in the lower bar.

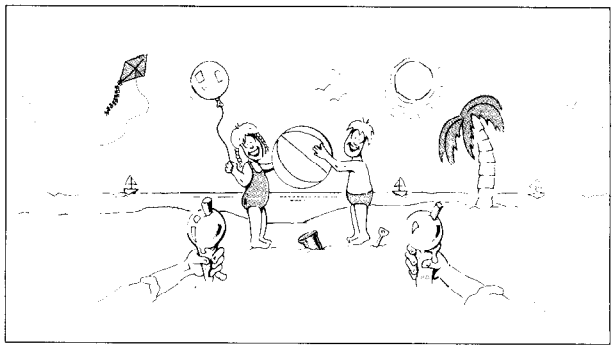
**not teletext subtitles*

PIC SIZE: Wide

The Wide mode is only for viewing true 16:9 broadcasts. These movies, dramas etc. can now be viewed at home on TV as the Director originally intended. Press the **PIC SIZE** button repeatedly to ***select* Wide**.

If you view a conventional 4:3 broadcast in Wide mode the TV will stretch the picture to fill the screen.

At times you may notice black bars above and below the picture, this is quite normal. These bars can be removed by adjusting the **Picture size/poz.** from the Feature Menu.



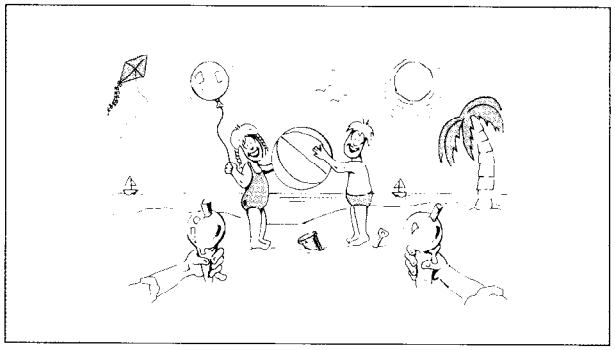
Viewing a true 16:9 broadcast.

PIC SIZE: 4:3

Press the **PIC SIZE** button repeatedly to ***select* 4:3**.

4:3 mode will display the broadcast images in a true 4:3 aspect, without modifying the picture. Grey bars will appear down both the left and right side of the picture to give the conventional shape. This is normal.

Alterations may be made to the horizontal picture position by selecting **Picture size/pos.** from the Feature menu. To ***adjust*** the horizontal picture position press the ⊡+ (or ⊡−) buttons as required.



Viewing a 4:3 broadcast.

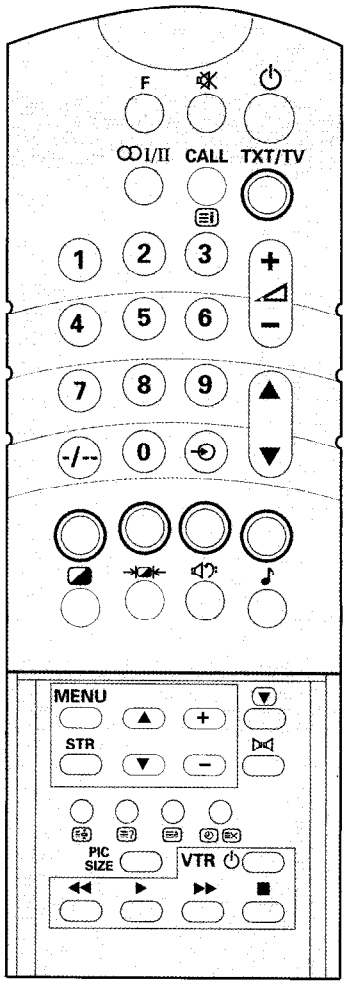
Picture adjustment

Picture adjustment:

There are four picture styles to choose from.

Picture-1, Picture-2 and Picture-3 are factory set.

To change the settings to suit your own particular taste select Picture-M, adjusting contrast, brightness, colour, tint and sharpness accordingly.



The tint may only be adjusted on a tape which has been recorded & played back on an NTSC video recorder, when in AUTO colour mode as described on page 32.

Selectable picture allows you to change the contrast at the touch of a button.

To select the alternative picture styles

1 Press the ⇥◪⇤ button repeatedly to view the different picture styles available.

Picture-1

Picture-2

Picture-3

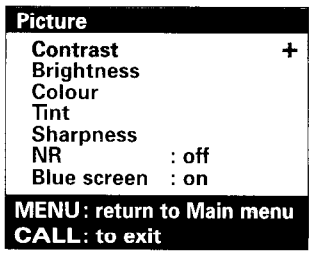
The memory Picture-M will contain your own selection of Contrast, Brightness, Colour, (Tint) and Sharpness as set out below.

Picture-M

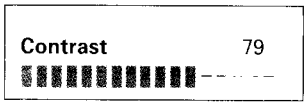
Contrast, Brightness, Colour, Tint and Sharpness Adjustment

1 Press the ◪ button to ***select*** the **Picture** menu.*

Press the ▲ (or ▼) button repeatedly to ***select*** between the **Contrast, Brightness, Colour**, **Tint** and **Sharpness**.



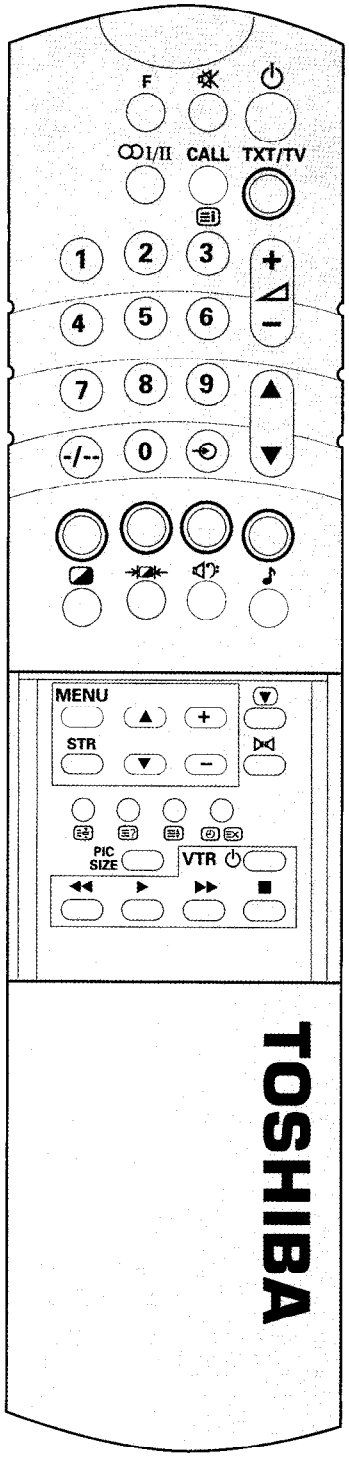
2 Use the + (or −) button to ***adjust*** the settings.



* This menu can also be accessed by using the buttons on the front of the TV.

Sound adjustment

Sound adjustment:



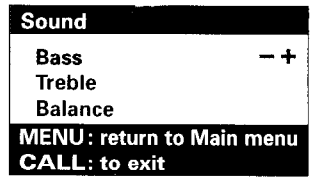
Bass, Treble and Balance Adjustments

1 Press the ♪ button to ***select*** the **Sound** menu.*

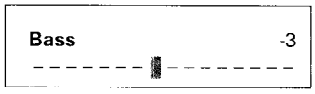
Press the ▲ (or ▼) button repeatedly to ***select*** **Bass**, **Treble** or **Balance**.

For example: **Bass**.

Press the + button to ***select*** the **Bass** display.



2 Use the + (or −) button to ***adjust*** the setting.

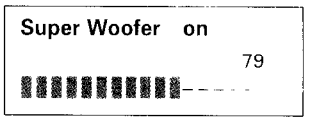


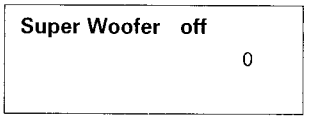
* This menu can also be accessed by using the buttons on the front of the TV.

A Super Woofer has been built into your new Toshiba television which will add a greater depth to the sound.

To select Super Woofer

1 Press the 🔊 button to ***select*** **Super Woofer 'on'**. Press again to turn it 'off'.





2 Press the + (or −) button to adjust the Super Woofer level.

Stereo or bilingual broadcasts

This TV set is designed to receive and automatically detect all NICAM and dual language transmissions. The following describes the operation and displays which accompany these broadcasts.

Stereo/bilingual modes:

If Nicam or dual language broadcasts are transmitted the word Stereo or Dual will appear in the upper right corner of the screen, after a few seconds the display will disappear. The display will reappear each time you change programme positions, provided that the broadcast is in stereo. If the broadcast is not in stereo the word Mono will appear.

Some common problems with Nicam reception:–

The word Stereo does not appear on screen:

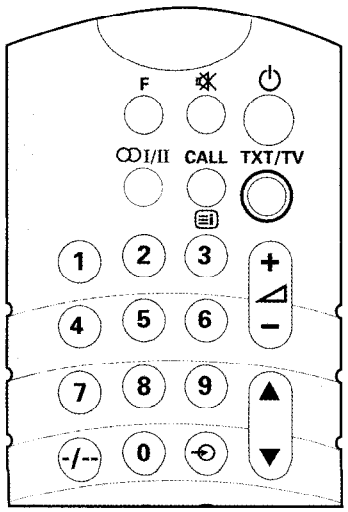
1 It is not a stereo transmission;
2 Your local transmitter has not been upgraded for Nicam.

Stereo appears but sound is in Mono:

1 You have selected Mono mode;
2 The original soundtrack of the film etc. was recorded in Mono;
3 The programme is being broadcast with identical sound in left and right channels.

Note: For stereo and dual language information refer to a TV programme magazine or the text pages for your area.

If transmission is in Mono the ⌀I/II button has no effect.

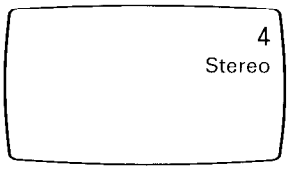


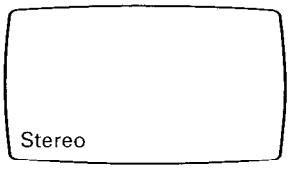
To select stereo/mono mode

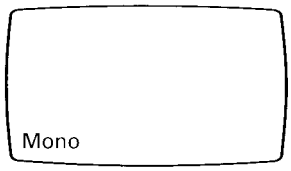
1 ***Select*** the required programme position.

2 Press the ⌀I/II button repeatedly, to ***select*** between Stereo and Mono.

(NICAM broadcasts can be in either Stereo or Mono.)





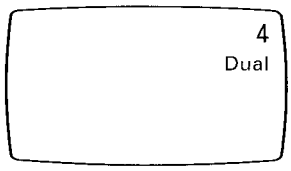


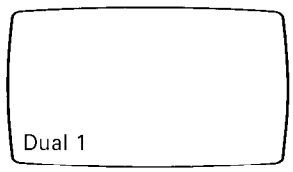
Bilingual transmissions are rare. If bilingual broadcasts are transmitted the word Dual will be displayed.

To select bilingual mode (when transmitted)

1 If the word Dual appears when you ***select*** your programme position.

2 Press the ⌀I/II button to ***select*** between the different options.





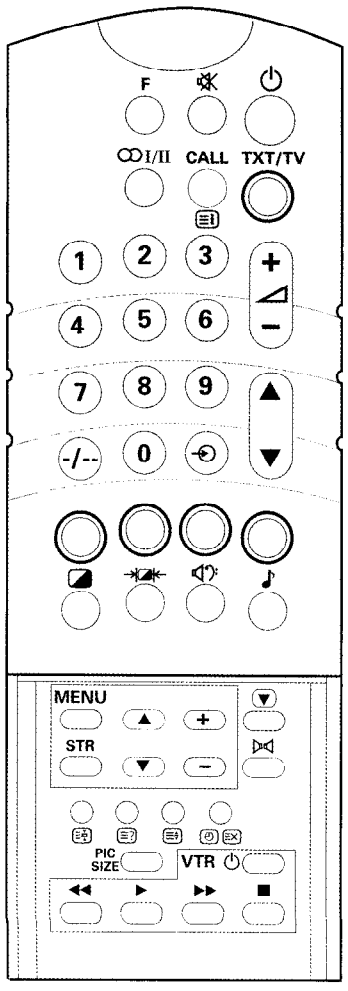
Surround effect selection

With Toshiba's 'Digital Surround processor' and Dolby Pro Logic Surround your television can simulate a wide range of various surroundings: From Dolby Pro Logic Surround and Dolby 3 Stereo to Hall, Theatre, Disco, Stadium and Pseudo surround.

Surround effect selection:

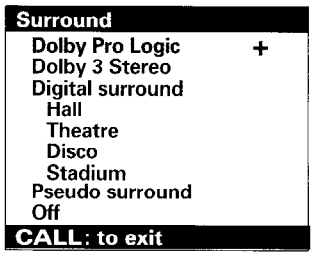
Toshiba's TV's with Dolby Pro Logic Surround use a combination of speakers (front-left, front-right, centre and two rear speakers) to reproduce in the living room the surround effects now available on most videos and an increasing number of TV broadcasts.

With Toshiba's Digital surround processor, various effects are available to simulate a wide range of listening environments using the surround speakers. Whatever you are watching, it's easy to choose the sound mode that will make you feel as if you are right there in the concert hall, movie theatre, disco or stadium and even mono soundtracks can be enhanced when in pseudo mode.
Note: Dolby Pro Logic Surround and Dolby 3 Stereo are only available on a stereo signal.



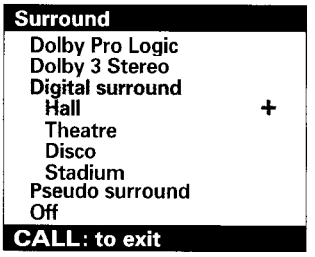
1 Press the ▷◁ button to ***select*** the **Surround** menu. Press the ▲ (or ▼) button to ***select*** between the modes available.

DOLBY PRO LOGIC*

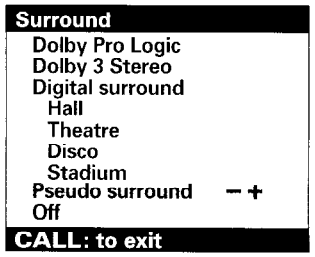


Dolby 3 Stereo

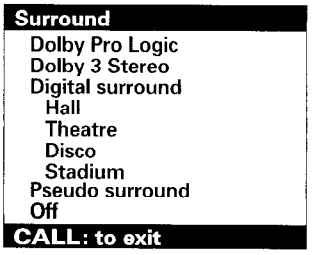
Digital Surround
Hall or
Theatre or
Disco or
Stadium



Pseudo Surround



Off (Surround Sound off, normal stereo).

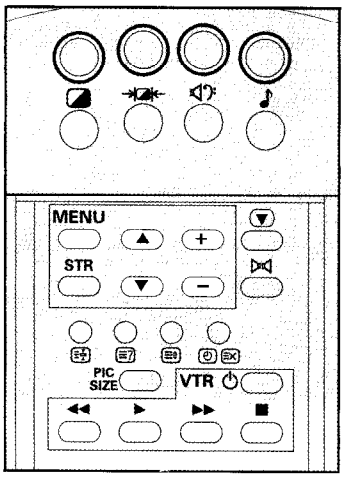


* Only available when **Rear speaker: yes** is selected, see page 24.

Dolby Pro Logic and Dolby 3 Stereo

Before you can get the full effects of Dolby Pro Logic and Surround effects, you must check that the TV is set-up to play sound through the Rear speakers.

Rear Speakers:



1 With the **Feature menu** showing, press the ▲ (or ▼) button to ***highlight*** Surround set up.

Press the + button to ***select*** the **Surround set up** menu.

Feature menu
AV connection
Picture size/pos.
Teletext : Auto
Surround set up +
MENU: return to Main menu
CALL: to exit

2 Press the ▲ (or ▼), button to ***highlight*** Rear speaker.

Press the ◁ (or −) button to ***select*** between –

Rear speaker: no and

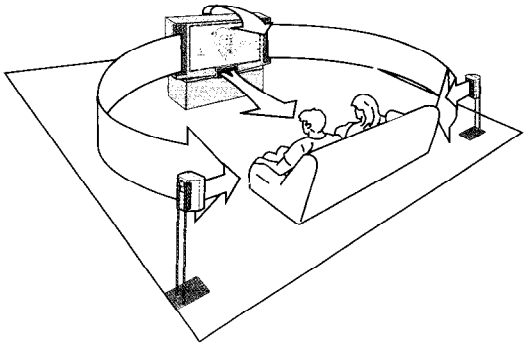
Rear speaker: yes.

Surround set up
Rear speaker : no −+
Surround Test mode
MENU: return to Feature menu
CALL: to exit

Surround set up
Rear speaker : yes −+
Surround Test mode
MENU: return to Feature menu
CALL: to exit

The illustrations below show the sound effects available from the three modes and the speakers used.

Dolby Pro Logic:



6 Speakers Driven:

Front Left,

Centre,

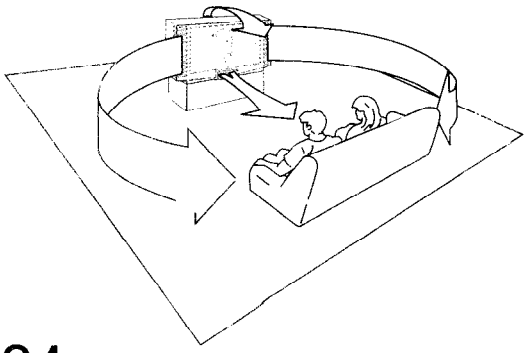
Front Right,

Rear Left

Rear Right

Super Woofer.

Dolby 3 Stereo:



4 Speakers Driven:

Front Left,

Centre,

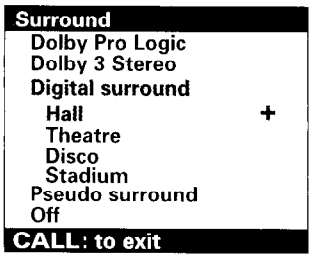
Front Right,

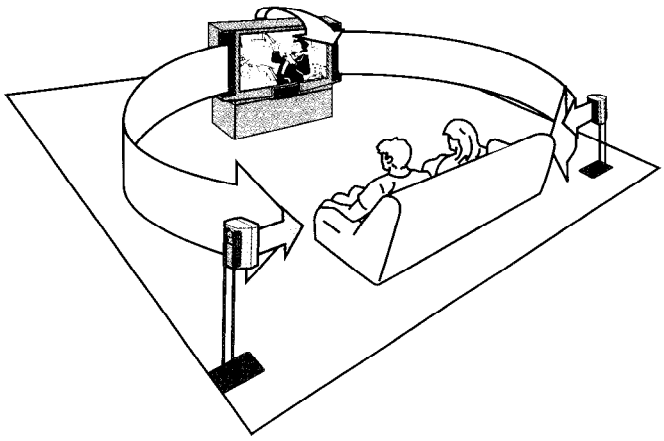
Super Woofer.

Digital surround processor

Note: Hall, Theatre, Disco, and Stadium effects are only available on a stereo signal. Pseudo surround works on both mono and stereo signals. The Digital Surround mode works equally well with either internal or external speakers connected. All of the Digital surround modes are adjustable, the method of adjustment described on page 29 is the same for all the Digital Surround effects. You must ensure that the TV is set up to play sound through the rear speakers, see page 24.

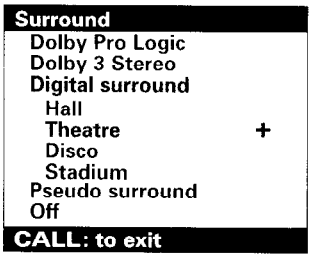
Surround Sound: Hall

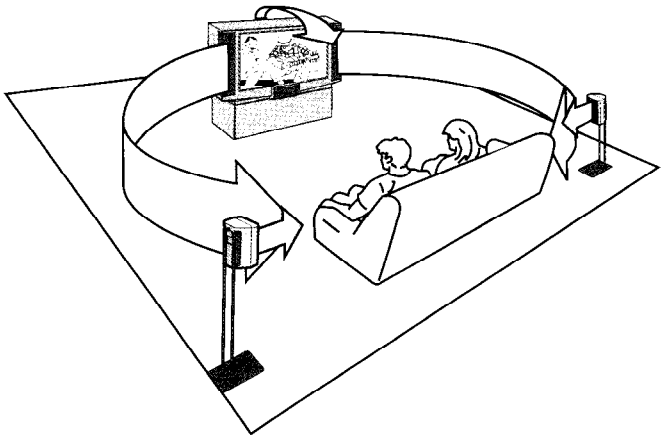




Surround Sound: Hall uses a combination of 5 speakers – front-left, front-right, two rear speakers and Super Woofer to reproduce in the living room the surround effects similar to those experienced in a large concert hall.

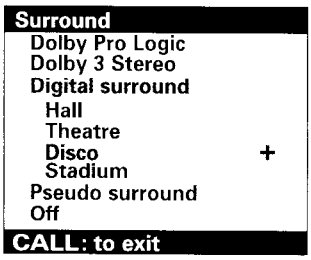
Surround Sound: Theatre

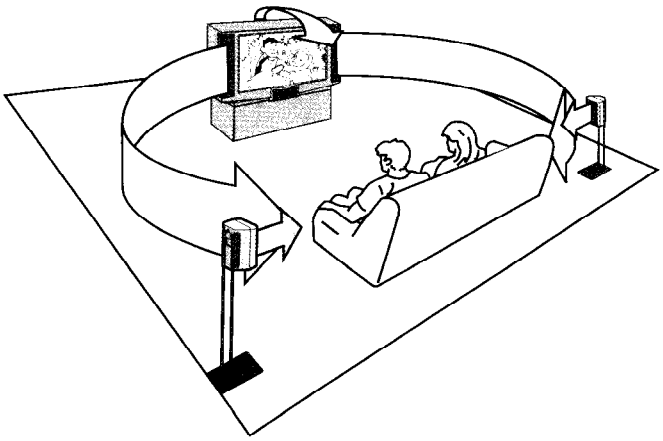




Surround Sound: Theatre uses a combination of 5 speakers – front-left, front-right, two rear speakers and Super Woofer to reproduce the surround effects similar to those experienced in a movie theatre filled with a rich warm sound. Ideal for movies with stereo sound.

Surround Sound: Disco



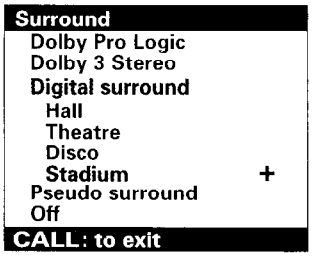


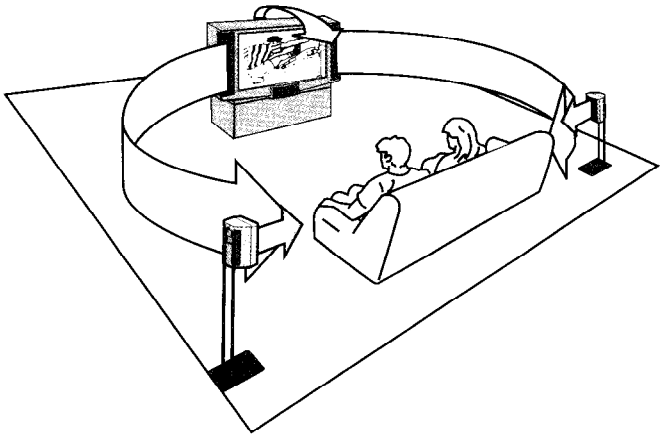
Surround Sound: Disco uses a combination of 5 speakers – front-left, front-right, two rear speakers and Super Woofer to create the atmosphere of a room so full of music that it seems to engulf the listener. An ideal sound mode for listening to pop videos.

Digital surround processor (continued)

Note: Hall, Theatre, Disco, and Stadium effects are only available on a stereo signal. Pseudo surround works on both mono and stereo signals. The Digital Surround mode works equally well with either internal or external speakers connected. All of the Digital surround modes are adjustable, the method of adjustment described on page 29 is the same for all the Digital Surround effects. You must ensure that the TV is set up to play sound through the rear speakers, see page 24.

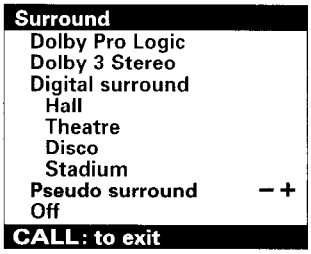
Surround Sound: Stadium

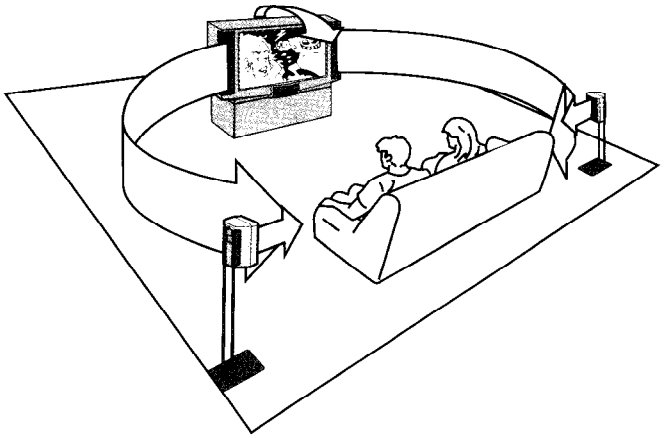




Surround Sound: Stadium uses a combination of 5 speakers – front-left, front-right, two rear speakers and Super Woofer to reproduce the surround effects similar to those experienced in a large football or baseball stadium packed for a live game.

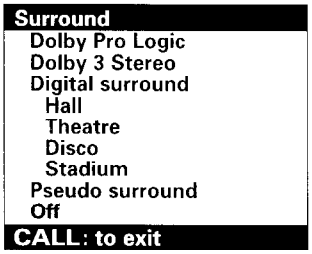
Surround Sound: Pseudo

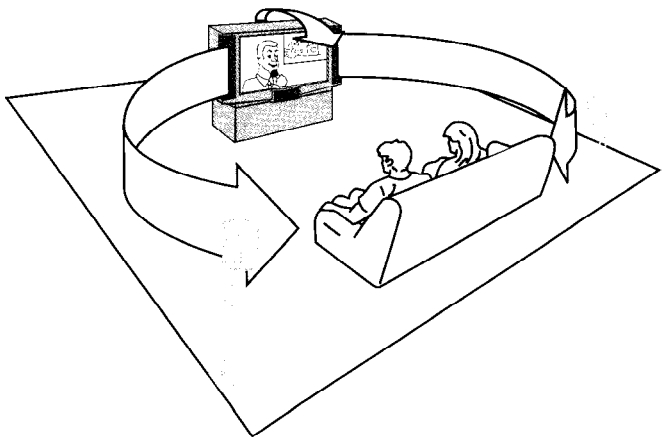




Surround Sound: Pseudo uses a combination of 5 speakers – front-left, front-right, two rear speakers and Super Woofer to create a synthetic sound effect for movies and TV shows recorded in mono.

Surround Sound: Off





Surround Sound: Off uses only the front left and right speakers and Super Woofer. This mode can be selected for watching news broadcasts and the like which require no special sound features.

Dolby Pro Logic Surround

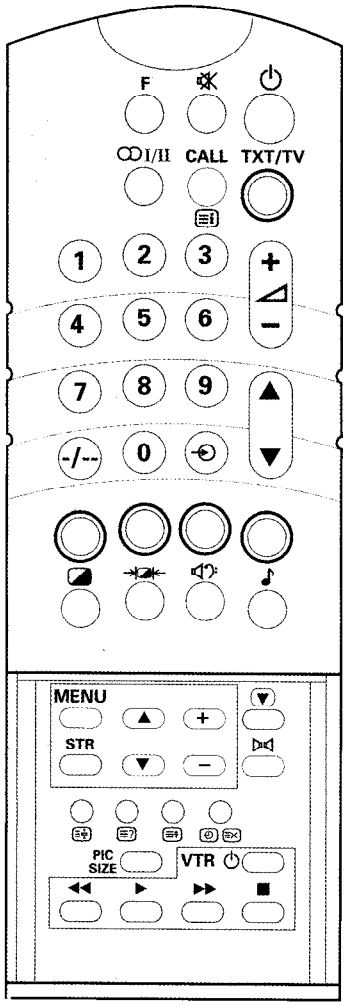
The realistic sound of the cinema is now available from your Toshiba television. This amazing 3 dimensional sound effect is available from any video and laser disk recorded in Dolby Surround and from an increasing number of TV broadcasts; **bear in mind that you need a stereo video recorder, connected via the scart lead provided, to obtain the effect from a video tape which is recorded in Dolby Surround.**

Dolby Pro Logic Surround and Dolby 3 Stereo:

Part of the excitement of a great film in the cinema often comes from the soundtrack. Hearing thunder rumble round the auditorium, or being surrounded by the atmospheric sounds of the jungle can make all the difference to the extent that we are drawn into a film.

These effects are usually created in the cinema by Dolby Stereo, a unique sound recording system which adds depth and sensitivity to a stereo sound track by projecting a surround track behind and around the audience.

This surround track has now been used on many films, most of which are now available on video. It is also broadcast as part of the signal when TV companies show these feature films in Nicam stereo. But until now, ordinary TVs were unable to 'unlock' this track and play it back around and behind the viewer.

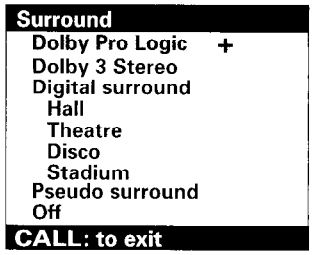


Please note: Inserting the headphone jack will mute the sound from all speakers and deliver a normal stereo left and right signal. There are no Dolby Pro Logic or Surround effects available when using headphones.

Before you can get the full effects of Dolby Pro Logic and Surround effects, you must check that the TV is set-up to play sound through the Rear speakers (see page 24).

To select Dolby Pro Logic Surround

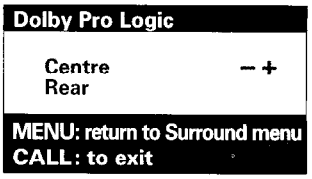
1 Press the ▷◁ button to ***select*** the **Surround** menu. Press the ▲ (or ▼) button to ***select*** **Dolby Pro Logic**.



2 Press the + button to bring up the levels menu.

Press the + (or −) button to adjust the levels.

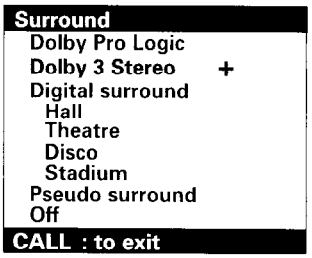
Alternatively, set the levels using the test routine described on page 28.



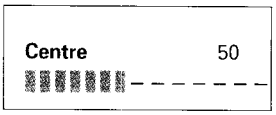
To select Dolby 3 Stereo

1 Press the ▷◁ button to ***select*** the **Surround** menu.

Press the ▲ (or ▼) button to ***select*** **Dolby 3 Stereo**.



2 Press the + button twice to view the level set.



Alternatively, ***adjust*** the level using the test routine described on page 28.

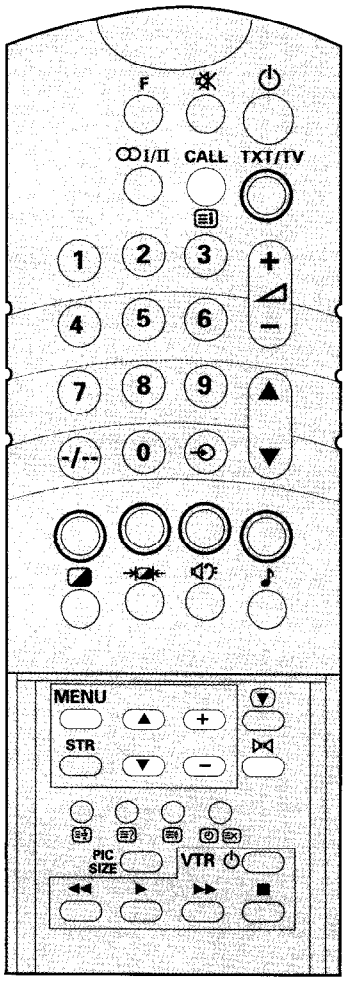
Dolby Surround level settings

When running the following Test sequences ensure that you are seated where you would normally watch the TV. These Test sequences are designed to let you balance all the speakers to the same volume level. The method of adjustment described below is the same for all the Dolby Surround effects. The viewing position is important to gain the maximum effect from this TV.

Dolby Test mode:

In order to get the best sound response from your new Toshiba TV we strongly recommend that adjustments should be made only whilst running the Test menu. The Test will play a 'white noise' through each of the speakers in turn. The display will show you which speaker is in play, adjustment to the speaker levels may be made whilst it is highlighted on the screen.

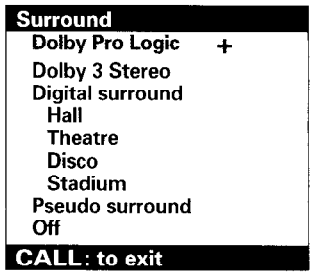
Note: To adjust the front left and right balance see page 21. Once the levels have been set they will need little or no adjustment.



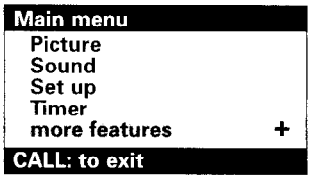
Before you can get the full effects of Dolby Pro Logic and Surround effects, you must check that the TV is set-up to play sound through the Rear speakers (see page 24).

To select Dolby Test mode

1 Press the ▷◁ button to bring up the **Surround** menu. Press the ▲ (or ▼) button to ***select*** either of the two Dolby modes (for Digital modes, see page 29).



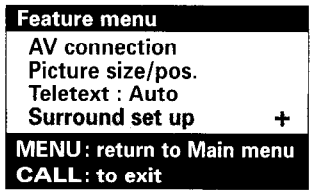
2 Press the **MENU** button to ***select*** the **Main menu**. Using the ▲ (or ▼) button, ***highlight*** more features.



3 Press the + button to ***select*** the **Feature menu**.

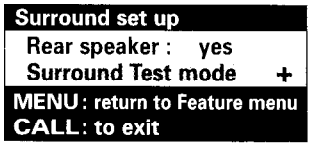
4 Press the ▲ (or ▼) button to ***highlight*** Surround set up.

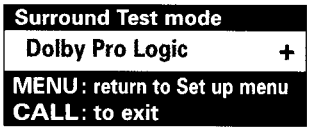
Press the + button to ***select*** **Surround set up**.



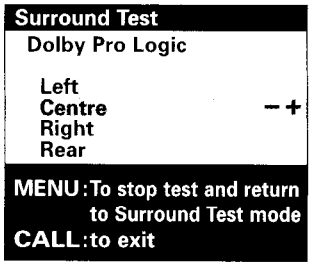
5 Press the ▲ (or ▼) button to ***highlight*** Surround Test mode.

Press the + button to ***select*** **Surround Test mode**.





6 Press the + button to ***start*** the Surround Test. ***Adjust*** the Centre and Rear levels to match the Front Left and Right by pressing the + (or −) button whilst the relevant display is highlighted.



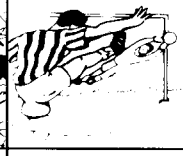
7 To end the Test press the **CALL** button.

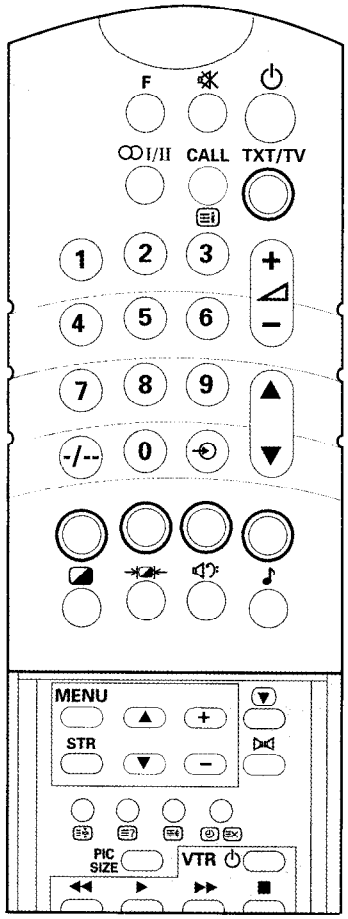
The settings are automatically stored for each mode.

Digital Surround effect level settings

Note: Hall, Theatre, Disco, and Stadium effects are only available on a stereo signal. Pseudo surround works on both mono and stereo signals. All of the Digital surround modes are adjustable, the method of adjustment described below is the same for all the Digital Surround effects.

Digital Surround settings:

	HALL	THEATRE	DISCO	STADIUM	PSEUDO
SETTING					
EFFECT	A concert hall with a seating capacity of about 1500.	A movie theatre filled with a rich, warm sound.	A room so full of music that it seems to engulf the listener.	A large football or baseball stadium packed for a live game.	A synthetic surround effect for movies and TV programmes.
APPROPRIATE SOURCES	Classical, rock, pop or folk music. Ideal for TV programmes or music video tapes.	TV programmes or movies with stereo sound.	Disco, dance or jazz music.	Any live sports occasion.	Movies and TV programmes in mono.



To select the Digital Surround Test mode

1 Press the ▷◁ button to bring up the **Surround** menu. Press the ▲ (or ▼) button to ***select*** the **Digital surround** mode required.

i.e. Hall, Theatre, Disco or Stadium

Surround
Dolby Pro Logic
Dolby 3 Stereo
Digital surround
Hall +
Theatre
Disco
Stadium
Pseudo surround
Off
CALL: to exit

2 Press the + button to ***select*** the Digital Surround adjustment menu.

Digital Surround
Digital surround : Hall
Left, Right −+
Rear
MENU: return to Surround menu
CALL: to exit

3 Use the ▲ (or ▼) button to ***move*** the highlight bar. ***Adjust*** the Rear levels to match the Front Left and Right by pressing the + (or −) button whilst the relevant display is highlighted.

Digital Surround
Digital surround : Hall
Left, Right
Rear −+
MENU: return to Surround menu
CALL: to exit

4 To end the TEST press the **CALL** button.

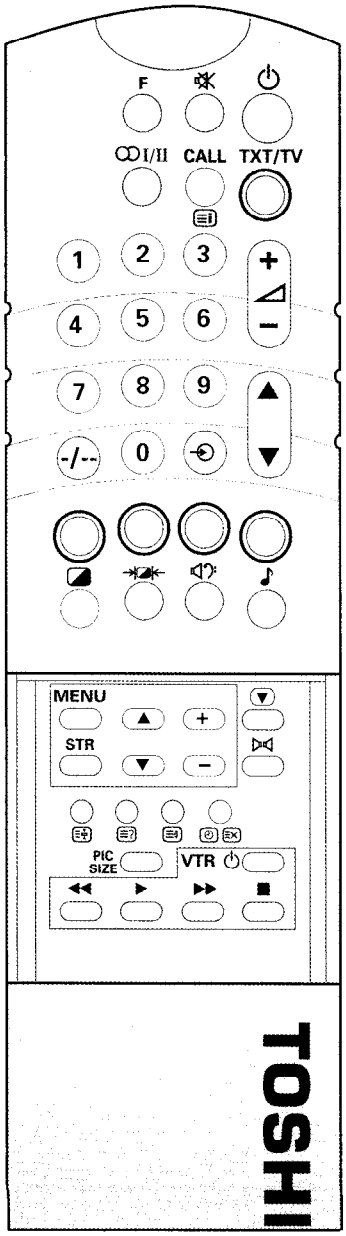
Note: This procedure can be repeated for each of the Surround modes. i.e. Hall, Theatre, Disco and Stadium.

The settings are automatically stored for each mode.

Timer, Noise reduction, Blue screen, Time Display

Timer:

The Timer is especially useful if you want the television to turn itself on or off after a selected period of time. For example: If you want the set to turn itself on in 30 minutes time and watch programme 3 simply follow the procedure indicated. Activation of the Timer is indicated by the green "on timer indicator" on the front of the TV (see page 7).



To select the Timer menu

1 Press the **MENU** button to display the **Main menu**.

Press the ▲ (or ▼) button repeatedly to ***highlight*** Timer.

Main menu
Picture
Sound
Set up
Timer −+
more features
CALL: to exit

2 Press the + button to display the **Timer** menu.

Use the numbered buttons to set the ON or OFF delay time, e.g. On in 30 minutes and programme 3 selected.

Timer	
Off timer : 00:00	0-9
On timer : 00:30 P03	
0-9 : to set	
MENU: return to Main menu	
CALL: to exit	

Note: When setting the ON time you will be required to enter the selected programme position. The set must then be put into standby mode (see page 7).
The maximum time delay is 12 hrs 59 mins.

Noise Reduction (NR), Blue Screen:

The Noise Reduction (NR) feature can improve the picture quality of a weaker signal.

The Blue Screen control instructs the television set to mute the sound and switch the screen to blue when no signal is being received and will switch to standby after approximately 20 minutes.

To select Noise Reduction (NR) and Blue Screen

1 Press the ◪ button to bring up the adjacent menu.

Press the ▲ (or ▼) button to ***select*** **NR** or **Blue screen.**

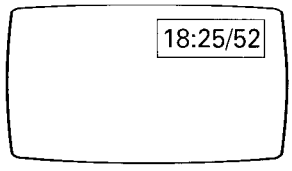
Picture	
Contrast	
Brightness	
Colour	
Tint	
Sharpness	
NR	: off −+
Blue screen	: on
MENU: return to Main menu	
CALL: to exit	

2 To turn on (or off) press the + (or −) button.

Time display:

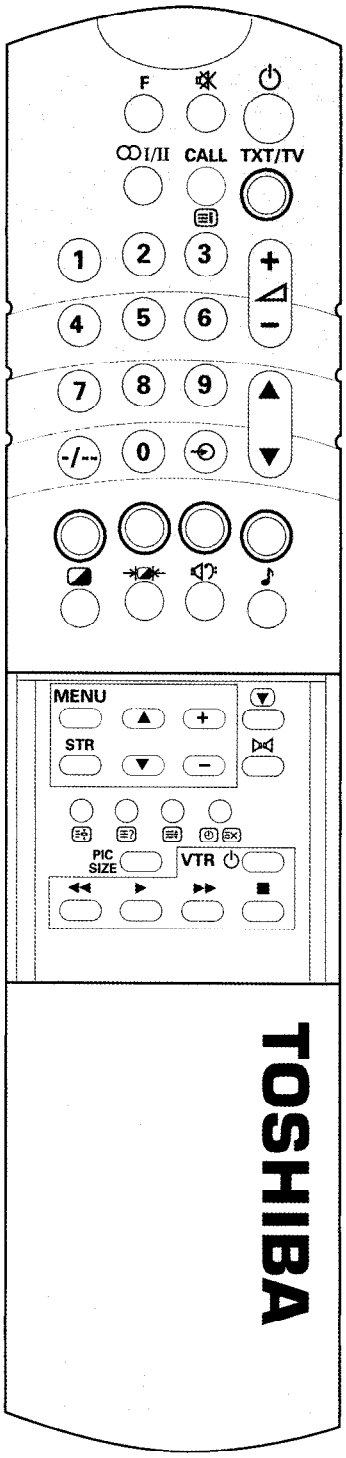
To select the Time display

If you press the ⏲ button whilst watching a normal TV broadcast, you will see a very accurate time display appear in the top right corner of the screen (which remains on screen for approximately 5 seconds) i.e. 6.25 and 52 seconds p.m.



AV connections

AV connections:



This feature allows you to select the type of video recorder to be connected to scarts 2 or 3. S-Video enables the television to receive from Super VHS video recorders, AV enables the television to receive from standard video recorders.

To select INPUT signal for scart 2 and scart 3

1 Press the **MENU** button to display the **Main menu**.

2 Press the (+) button to ***select*** the **Feature menu**.

3 Press the (▲) (or (▼)) button to ***highlight*** AV connection.

4 Press the (+) (or (−)) button to ***select*** the required **input**: **AV** or **S-Video**.

Main menu
Picture
Sound
Set up
Timer
more features +
CALL: to exit

Feature menu
AV connection +
Picture size/pos.
Teletext : Auto
Surround set up
MENU: return to Main menu
CALL: to exit

AV connection
EXT2 input : AV −+
EXT3 input : S-Video
EXT2 output : Monitor
MENU: return to Feature menu
CALL: to exit

To select OUTPUT signal for scart 2

This feature enables you to select the source to *output* from Scart 2. e.g. If you connect a stereo satellite receiver to Scart 1 and a stereo video recorder to Scart 2, and select EXT1 as the EXT2 output (i.e. you will output the signal received through Scart 1 directly out to Scart 2), you will be able to record the stereo satellite transmission in stereo.

1 Press the (▲) (or (▼)) button to ***select*** **EXT2 output**.

Press the (+) (or (−)) button to ***select*** between **Monitor, EXT3, EXT2, EXT1** or **TV**.

Monitor = Picture on screen
TV = TV tuner

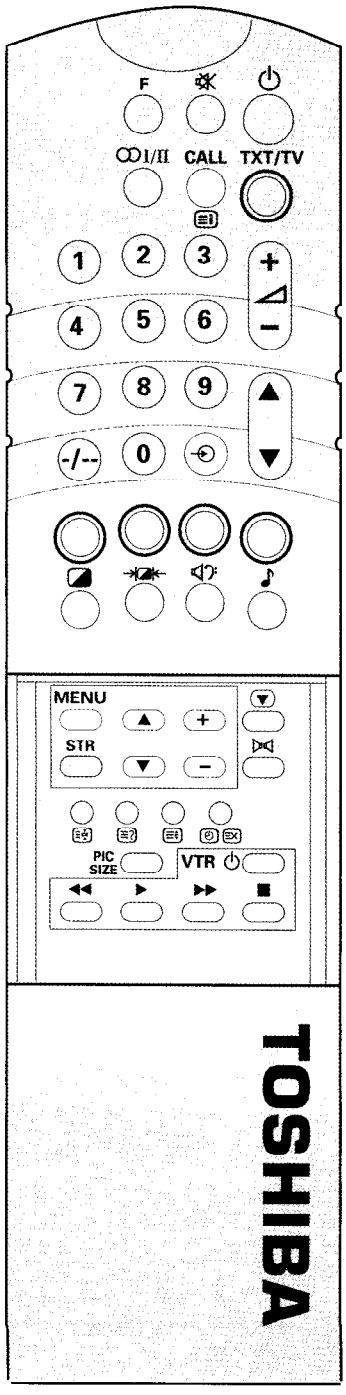
AV connection
EXT2 input : AV −+
EXT3 input : S-Video
EXT2 output : Monitor
MENU: return to Feature menu
CALL: to exit

Input Selection, Colour system selection

NOTE: To identify the current programme position press the **CALL** button. Press again to cancel the display.

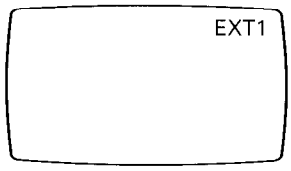
Input Selection:

Having connected your video recorder, satellite receiver etc. you may select it with the external source selection button ⊕. Most satellite receivers and video recorders will do this automatically for you.

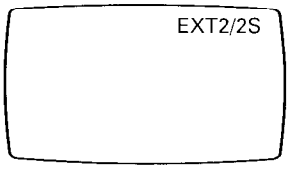


Input Selection (If the TV does not switch over automatically)

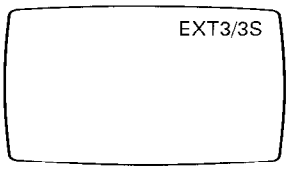
1 Press the ⊕ button to bring up the adjacent display. This will set your TV to a video connected through Scart 1 (EXT1) ⇨(1).



2 Press the ⊕ button again to ***select*** the equipment connected to Scart 2 (EXT2 or EXT2S) ⇨(2).



3 Press the ⊕ button again to ***select*** the equipment connected to Scart 3 (EXT3 or EXT3S) or input 3, ⇨(3), on the back of the TV or input 3, ⊕(3), on the front of the TV.



To return to TV mode simply press one of the numbered buttons on the remote control. To view the auxiliary equipment once again, simply press the ⊕ button.

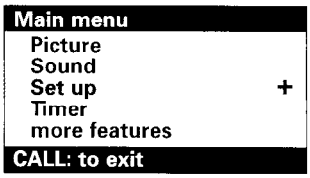
Colour system selection:

When using an external source i.e. video recorder, if there is little or no colour, improvements may sometimes be achieved by trying a different Colour mode. Selecting AUTO as described below, the TV will automatically display the best Colour system.

To select the Colour System (only available when using an external source).

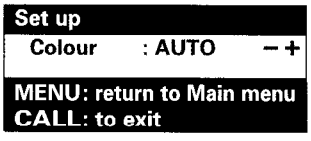
1 With the **Main menu** showing.

Press the ▲ (or ▼) button to ***highlight*** Set up.



2 Press the + button to ***select*** the **Set up** menu.

3 Press the + (or −) button to ***select*** the required colour system.



AUTO (which will automatically sense the system transmitted).
PAL
4.43NTSC
or
3.58NTSC.

Teletext

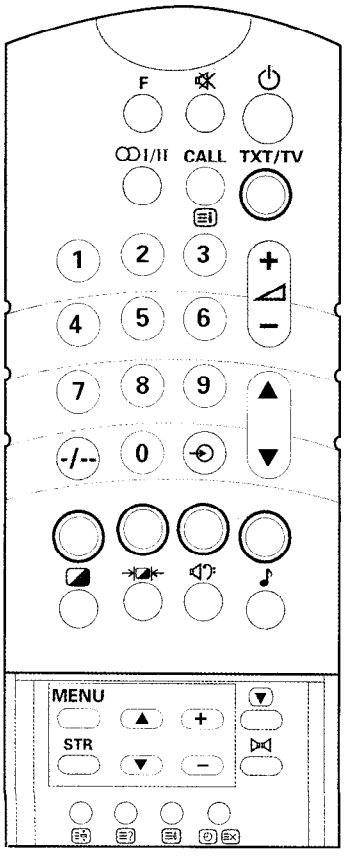
The Teletext System on this television offers two different ways of viewing text. The systems available will depend on which system(s) are broadcast by your television broadcast station. Your Toshiba dealer will be able to advise you.

Note: It will not be possible to change programme position whilst in Teletext mode, you will have to cancel the teletext first by pressing the **TXT/TV** button twice. You will also need to cancel text before changing channels whilst using a satellite receiver.

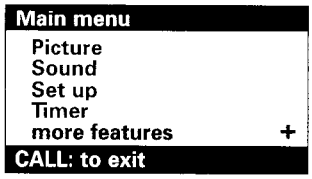
Teletext mode:

Selecting AUTO, the TV will automatically display the best text system available i.e. if FASTEXT is transmitted it will be displayed. If no FASTEXT is available, normal text will be displayed. Selecting LIST will enable you to 'link' chosen pages.
When you first select teletext you will see an initial page which briefly outlines the main subject areas and their relevant page numbers. You can access any teletext page by entering a 3 digit page number using the numbered buttons on the remote control.

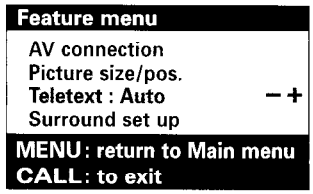
To advance to the next page of teletext, press the ▲ button, to go back to the previous page press the ▼ button.
FASTEXT is a method of viewing teletext pages by related subjects. These subject areas are grouped by the broadcast studio and are selected by pressing one of the associated coloured prompt buttons on the remote control.
LIST mode enables you to select an INITIAL page and four user selected teletext pages on any programme position 0-9.



1 Press the **MENU** button and with the **Main Menu** showing press the ▲ (or ▼) button to ***highlight*** more features.



2 Press the + or − button to ***select*** between **Auto** and **List** modes.



Using Teletext: Auto and List modes:

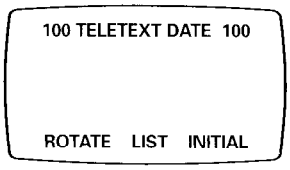
Using AUTO Mode

Press the **TXT/TV** button to ***select*** **Teletext.**
If **FASTEXT** is available, you will see 4 coloured titles at the base of the TV screen. To access any given subject simply press the relevant coloured button on the remote control.
If **FASTEXT** is not available, you can access any page simply by entering a 3 digit page number. For further information on your particular text system(s) see the broadcast teletext index page or consult your local Toshiba dealer.

Using LIST Mode

1 Press the **TXT/TV** button to ***select*** **Teletext.**

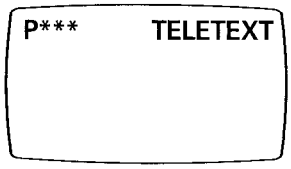
2 To programme the set to hold your 4 favourite pages in memory. Select the LIST function by pressing the GREEN button.

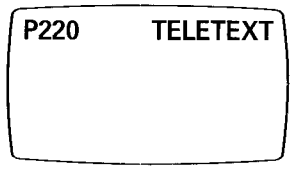


3 Enter the first page number (in purple) then press the GREEN button. (If the number reverts to white simply press the GREEN button again.) Repeat step 3 for each of the desired 4 pages.

4 To view the selected pages press the RED button for ROTATE.

5 On programme positions 0-9 you can pre-programme an INITIAL page. Select the INITIAL function by pressing the YELLOW button. P*** will appear in the top left corner of the screen. Enter the required 3 digit page number. As you key in the desired INITIAL page, for example page 220, the numbers will replace the ***. Whenever text is first selected on this programme position this INITIAL page will be displayed.



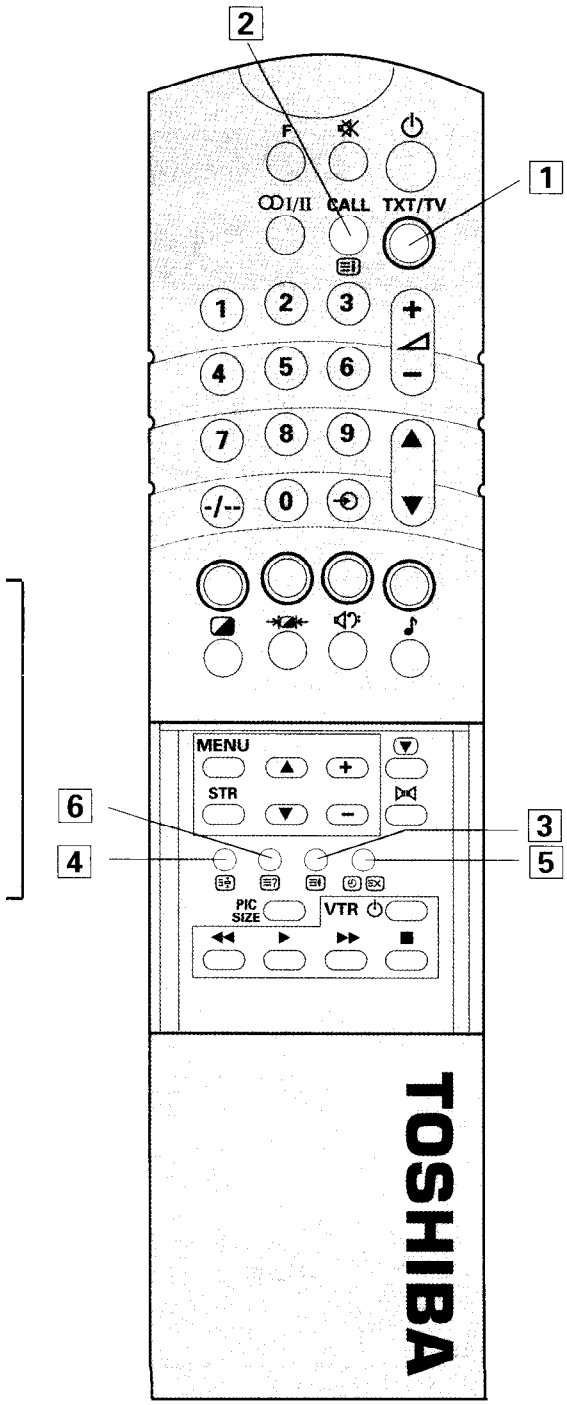


Teletext buttons on the remote control

Below is an introduction to the teletext buttons on your remote control and their functions.

Teletext buttons:

Note: It will not be possible to change programme position whilst in Teletext mode, you will have to cancel the teletext first by pressing the **TXT/TV** button twice.



1 TXT/TV To display a page of teletext:

Press the **TXT/TV** button to display teletext. Press again to superimpose the teletext over a normal broadcast picture. Press again to return to normal TV mode.

2 To display an index/initial page:

In Fastext-mode
Press the button to call up the index page for the subject area you are viewing. If you are viewing a section index, by pressing the button again you will see the general index.

In List-mode
Press the button to return to your chosen initial page.

3 To enlarge the teletext display size:

Press the button once to enlarge the top half of the page, press again to enlarge the bottom half of the page. Press again to revert to the normal size.

4 To hold a wanted page:

At times it is convenient to hold a page of teletext. Press the button and the word HOLD will appear in the top left of the screen. Press again to release.

5 To select a page whilst viewing a normal picture:

When in teletext mode, if a page selection is made and then the button is pressed, a normal picture will be displayed. The TV will indicate when the page is present by displaying the title bar of the text page at the top of the screen. Press the **TXT/TV** button to view the page.

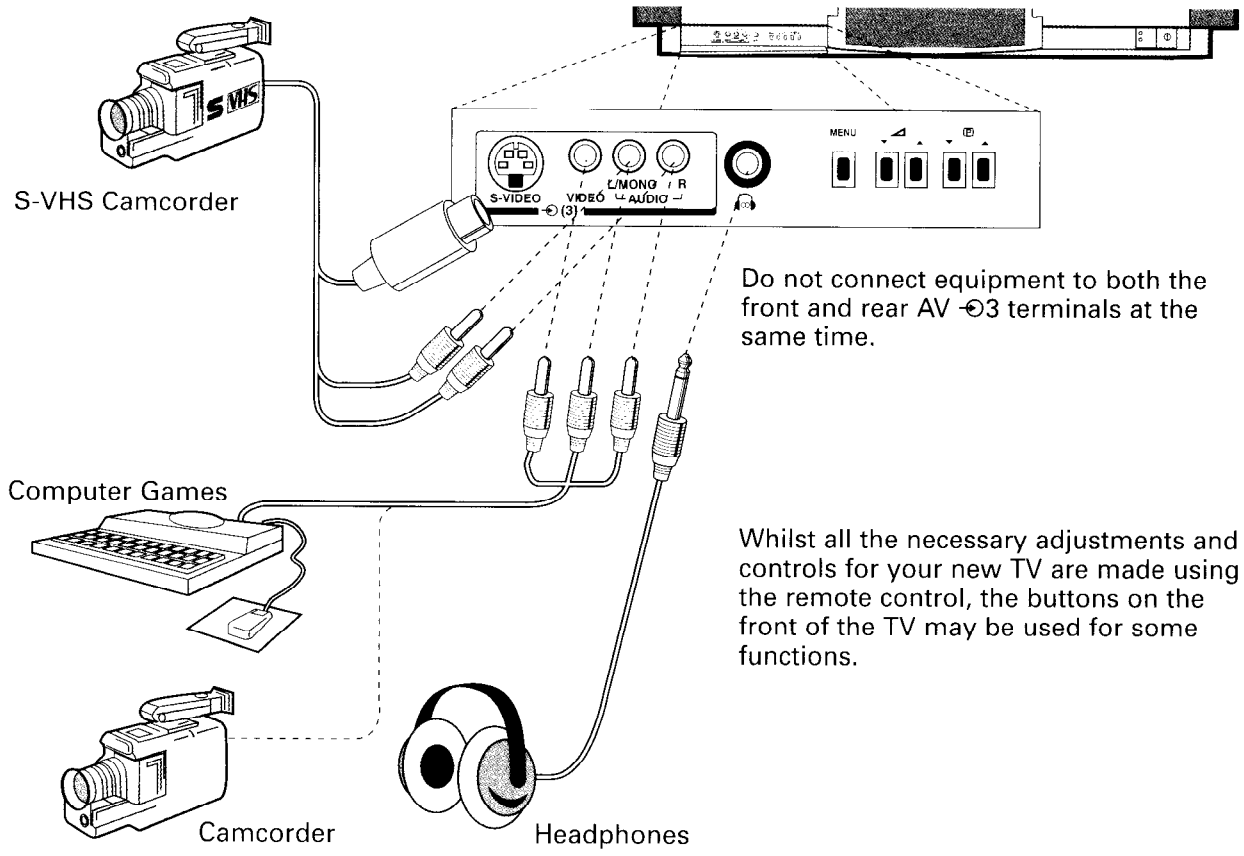
6 To reveal concealed text:

Some pages cover topics such as quizzes and jokes. To discover the solutions press the button.

TV front panel

You are able to connect a wide variety of auxiliary equipment via the phono sockets located behind the flap on the front of the TV. To open press the right hand side of the flap. For full details always refer to the owner's manual of the equipment to be connected.

Front connections:



Do not connect equipment to both the front and rear AV ⇔3 terminals at the same time.

Whilst all the necessary adjustments and controls for your new TV are made using the remote control, the buttons on the front of the TV may be used for some functions.

If you connect mono sound equipment to input 3, connect the audio output of the equipment to the L/Mono jack on the TV.

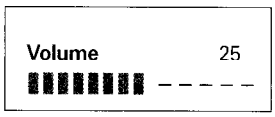
To select the front inputs, press the ⇔ button until the display shows EXT3 or EXT3S (see page 32).

Before connecting any external equipment, turn off all main power switches. If connecting any equipment using S-Video connectors please note that the S-Video jack accepts the separated luminance/chrominance (Y/C) signals.

Please note: Inserting the headphone jack will mute the sound from all speakers and deliver a normal stereo left and right signal. There are no Dolby or surround effects available when using headphones.

Front controls:

1 To alter the volume press the ◿ + (or −) button.



2 To alter the programme position press the Ⓟ ▲ (or ▼) button.

1 Press the **MENU** button to bring up the **Picture** and **Sound** options of the **Main menu**.

2 Press the ▲ (or ▼) button to ***highlight*** the desired item.

3 Press the + button to ***select*** the desired menu. Press the ▲ (or ▼) button to ***highlight*** the desired item.

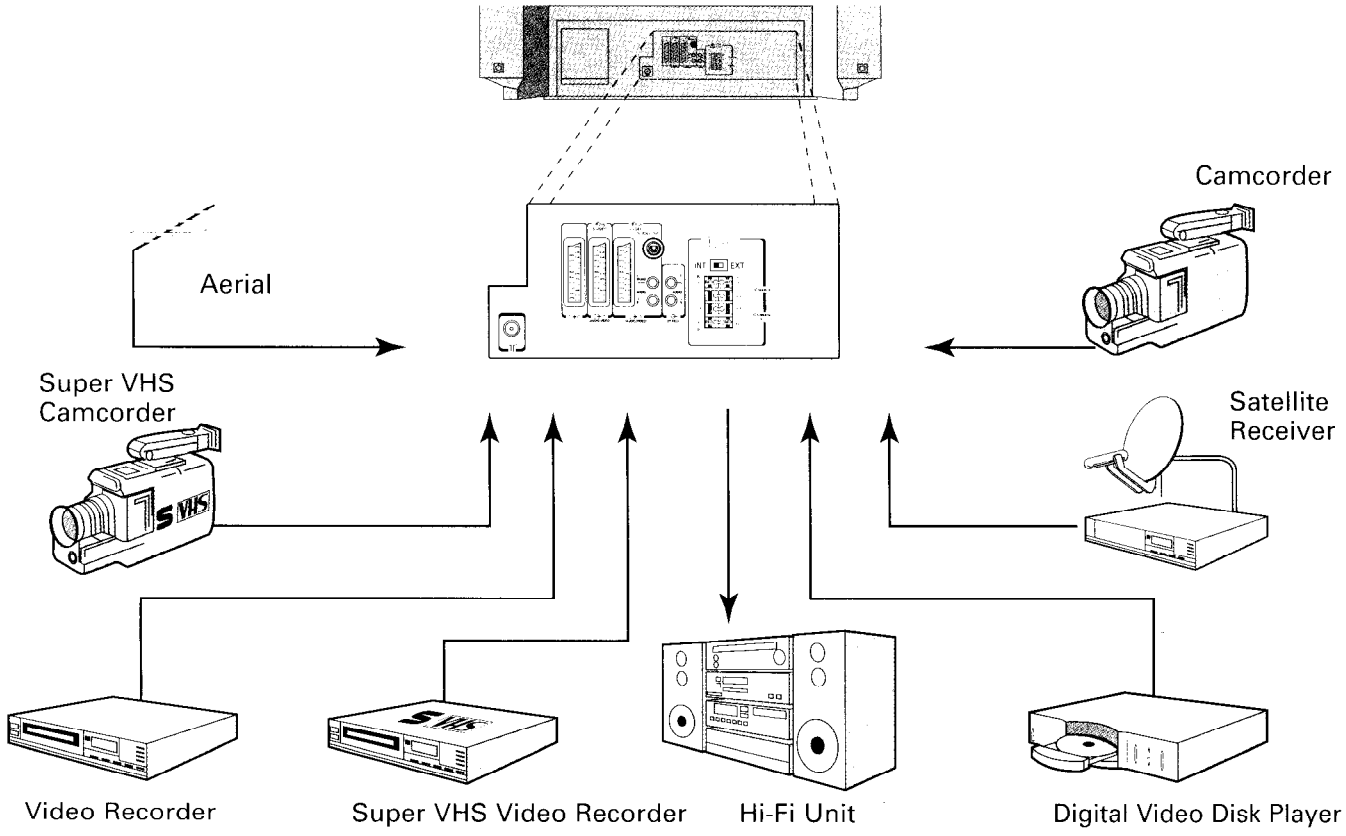
Press the + (or −) button to ***select/adjust*** the desired item.

Allow display to disappear or press the **MENU** button on the front of the TV to exit.

Back connections

If you connect mono sound equipment to input 3, connect the audio output of the equipment to the L/Mono jack on the TV.

Back connections:



On the back of the TV are 3 scart sockets, a selection of phono sockets and a Super-video socket, all of which will enable you to connect a variety of auxiliary equipment.

In addition there is a fixed external audio output which enables the connection of a suitable Hi-Fi unit.

Before connecting any external equipment, turn off all main power switches. If connecting any equipment using S-Video connectors please note that the S-Video jack accepts the separated luminance/chrominance (Y/C) signals.

If your TV automatically switches over to monitor the auxiliary equipment you can return to normal TV simply by pressing the desired programme position button. To recall the auxiliary equipment, press the ⊕ button repeatedly to select between EXT1, EXT2 and EXT3.

To view a video recorder press the ⊕ button repeatedly to select EXT1, EXT2 or EXT3.

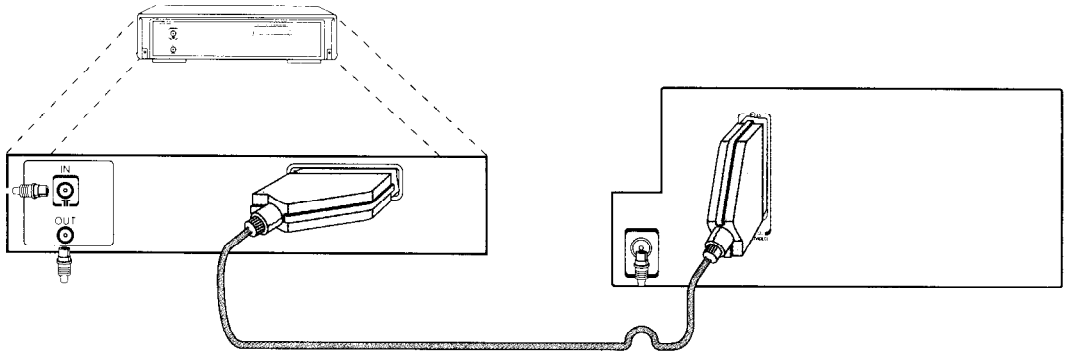
To return to normal TV press one of the numbered buttons on the remote control.

To return to watching a video press the ⊕ button again.

Connecting a video recorder

If your TV automatically switches over to monitor the auxiliary equipment you can return to normal TV simply by pressing the desired programme position button. To recall the auxiliary equipment, press the ⊕ button repeatedly to select between EXT1, EXT2 and EXT3.

Connecting a video recorder:

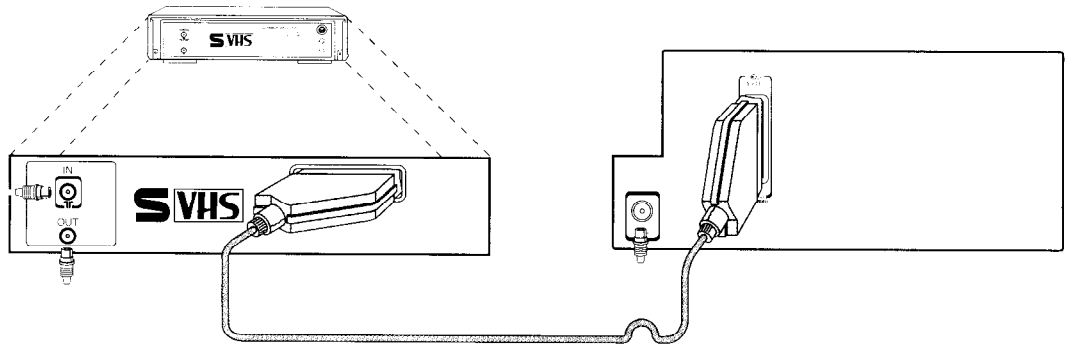


When connecting a normal (AV) video recorder we recommend that you connect it to scart 2.

Connect the output scart terminal on the video to scart 2 on the rear of the TV using a full 21 pin scart lead. If you wish to connect a second video recorder, connect it to scart 1.

Ensure that AV is selected for EXT2 rather than S-video as described on page 31. When you press play on the video recorder, the TV should automatically display the video signal. If it does not, press the ⊕ button on the remote control repeatedly to select the appropriate source. Each time you press the button, the TV, EXT1, EXT2 or EXT3 source will be selected in order. For further information see page 35 of this handbook.

Connecting a S-VHS video recorder:

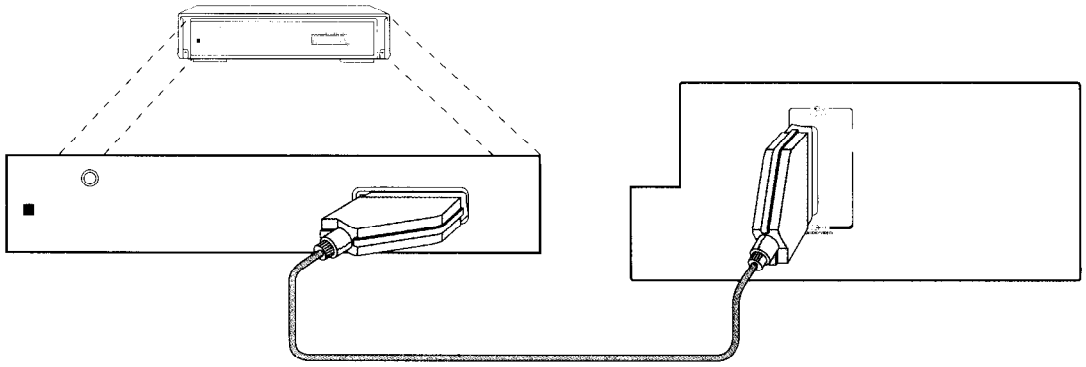


Connect the output scart terminal on the video to scart 2 on the rear of the TV using a full 21 pin scart lead. If you wish to connect a second video recorder, connect it to scart 1.

Ensure that S-video is selected for EXT2 rather than AV as described on page 31. When you press play on the video recorder, the TV should automatically display the video signal. If it does not press the ⊕ button on the remote control repeatedly to select the appropriate source. Each time you press the button, the TV, EXT1, EXT2 or EXT3 source will be selected in order. For further information see page 35 of this handbook.

Connecting a Digital Video Disk player and Satellite Receiver

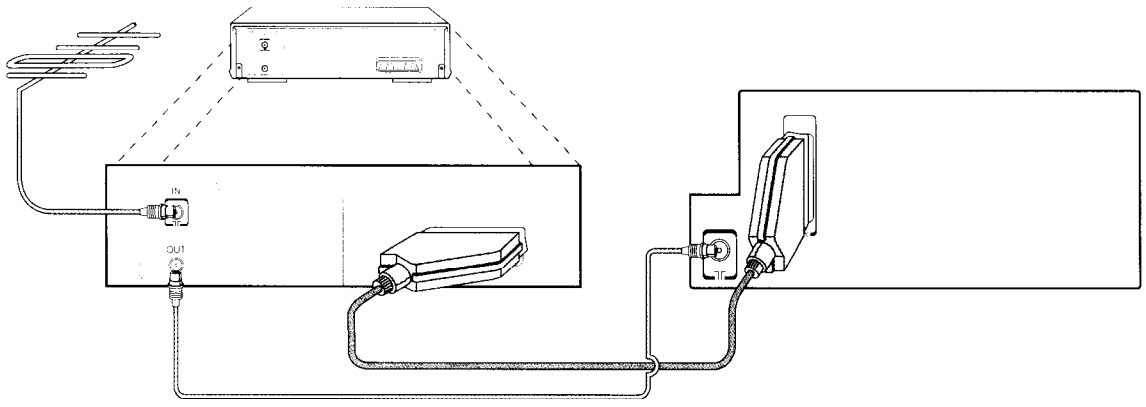
Scart:



Connect a Scart lead from the DVD to Scart 3 on the rear of the TV.

For full details on the operation of a DVD player, refer to the DVD Owner's Manual.

Connecting the Satellite Receiver:



Connect a scart lead from the satellite receiver to Scart 1 on the rear of the TV. Connect the aerial as described on page 3.

If your TV automatically switches over to monitor the auxiliary equipment you can return to normal TV simply by pressing the desired programme position button. To recall the auxiliary equipment, press the ⊕ button repeatedly to select between EXT1, EXT2 and EXT3.

For your guidance

SOME DO'S AND DON'TS ON THE SAFE USE OF EQUIPMENT. PLEASE READ THE FOLLOWING POINTS CAREFULLY. THEY ARE OF A GENERAL NATURE, INTENDED TO HELP YOU WITH ALL YOUR ELECTRONIC CONSUMER PRODUCTS. SOME ITEMS MAY NOT APPLY TO THE GOODS YOU HAVE JUST PURCHASED.

Safety advice:

This equipment has been designed and manufactured to meet international safety standards, but like any electrical equipment, care must be taken if you are to obtain the best results and safety is to be assured.

DO read the operating instructions before you attempt to use the equipment.
DO ensure that all electrical connections, including the mains plug, extension leads and inter connections, between pieces of equipment, are properly made and in accordance with the manufacturers instructions. Switch off and withdraw the mains plug when making or changing connections.
DO leave at least 10 cm clearance around the top, sides and back of the TV to allow adequate ventilation and sound response.
DO be careful with glass panels or doors on equipment.
DON'T continue to operate the equipment if you are in any doubt about it working normally, or it is damaged in any way – switch off, withdraw the mains plug and consult your dealer.
DON'T remove any fixed cover as this may expose dangerous voltages.
DON'T leave equipment switched on when it is unattended, unless it is specifically stated that it is designed for unattended operation or has a standby mode. Switch off using the switch on the equipment and make sure your family know how to do this. Special arrangements may need to be made for infirm or handicapped people.
DON'T use equipment such as personal stereos or radios so that you are distracted from the requirements of traffic safety.
DON'T listen to headphones at high volume, as such use can permanently damage your hearing.
DON'T obstruct the ventilation of the equipment for example, with curtains or soft furnishings. Overheating will cause damage and shorten the life of the equipment.
DON'T use makeshift stands and NEVER fix legs with wood screws – to ensure complete safety always fit the manufacturer's approved stand with the fixings provided, according to the instructions.
DON'T allow electrical equipment to be exposed to rain or moisture.
ABOVE ALL – NEVER let anyone, especially children, push anything into holes, slots or any other openings in the case – this could result in a fatal electric shock – NEVER guess or take chances with electrical equipment of any kind – it is better to be safe than sorry.

Simple problem solving:

If your TV fails to operate correctly, we recommend that the following simple checks are carried out before contacting your local Toshiba dealer.

No Picture or Sound.
Check: – mains switches are on, press ⏻.
Plug into a known working mains socket.
– 'Timer off' facility has operated.

Poor or no Picture.
Try a different TV station, check your aerial and connections. Adjust fine tuning.

Coloured patches on screen.
Often caused by magnetic field interference. Turn off the TV at the mains switch and leave overnight before switching on again.

VTR or Satellite picture in Black and White.
Ensure the correct input socket is being used and that the socket is not set to S-Video (see AV connections).

Good picture but no sound.
Press ◿+ or 🔇.

No sound heard from the external Left and Right speakers.
Check the speaker switch has been set to EXT.

Remote Control does not work.
Check the batteries.

No Dolby Surround.
If you are unable to obtain surround sound effects from the rear speakers whilst playing a Dolby Surround video tape, check that the video recorder is a stereo unit and that the direct left and right audio signals are input to the TV by means of one of the 21-pin Scart sockets.
If you connect external front left and right speakers, you must set the External speaker switch to EXT to get the full benefit of Dolby Pro Logic – if the switch is left on INT the external speakers will not function. **Turn the television off** before changing the position of the switch.

If you have problems with teletext.
Good performance of text depends on a good strong broadcast signal. This normally requires a roof or loft aerial. If the text is unreadable or garbled, check your aerial. Go to the main index page of the teletext service and look for the User Guide. This will explain the basic operation of teletext in some detail.

If you need further information on how to use text (see the Teletext section).

When the set reaches the end of its useful life please dispose of it in accordance with Local Government Regulations or at a recycling centre.

Cleaning the screen and cabinet. After turning off the power, clean the screen and cabinet with a soft, dry cloth. We recommend that you do not use any proprietary polishes or solvents on the screen or cabinet as this may cause damage.

Specifications, Accessories

Specifications:

Receiving system/channels	CCIR (I-PAL) TV Broadcast standard UHF: 21-69			
Programme Positions	100			
Standby Power consumption	7 watts			
Mains Plug 'Fitted' Fuse	5 amp			
Power consumption	28W8DB 120 watts		32W8DB 125 watts	
Stereo	Dolby, Nicam			
Video Input	PAL, PAL 60 Hz. (Video disk playback) NTSC 3.58/4.43 MHz./50Hz. NTSC (VTR playback)			
Input/Output Input/Output Input/Output Fixed Output Front input	Scart-1 (Full -21 pin) RGB, AV Scart-2 (21 pin) AV, S-video, Selectable output Scart-3 (21 pin) AV, S-video (RCA jack) Audio L + R Input 3 (4 pin S-video, AV and L + R audio) (Note: Front and Rear Input 3 are common)			
Visible Screen Size (Measured diagonally)	28W8DB 32W8DB	660 mm 760 mm		
Display	16:9 aspect ratio			
Sound output (at 10% distortion)	Main: Woofer: Centre: Surround:	10W + 10W rms 13W 10W 5W + 5W		
Dimensions	28W8DB 32W8DB	812 mm (W) 912 mm (W)	514 mm (H) 582 mm (H)	518.5 mm (D) 563 mm (D)
Weight	28W8DB 32W8DB	35.8 Kg (approx.) 49.5 Kg (approx.)		
Headphone Socket	3.5 mm Stereo			

Accessories:

1 Remote control
2 (R6 or AA) batteries
2 Surround speakers

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